HERMON LABORATORIES

839.01
Electrical

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TEST REPORT

ACCORDING TO: FCC part 15 subpart E and RSS-210 Issue 7, Annex 9

FOR:

RadWin Ltd.

Outdoor radio unit operating in the 5.4 GHz band

Model:RADWIN 1000, RADWIN 2000

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1 Applicant information

Client name:	RadWin Ltd.
Address:	32 Habarzel str., Tel Aviv, Israel, 69710
Telephone:	+972 3766 2988
Fax:	+972 3766 2922
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 transceiver
Model(s):	RADWIN 2000
Receipt date	11/25/2008

3 Manufacturer information

Manufacturer name:	RadWin Ltd.
Address:	32 Habarzel str., Tel Aviv, Israel, 69710
Telephone:	+972 3766 2988
Fax:	+972 3766 2922
E-Mail:	shlomo_weiss@radwin.com
Contact name:	Mr. Shlomo Weiss

4 Test details

Project ID:	19241
Location:	Hermon Laboratories Ltd. P.O.Box 23, Binyamina 30500, Israel
Test started:	11/25/2008
Test completed:	12/28/2008
Test specification(s):	FCC part 15 subpart E; RSS-210 Issue 7:2007, Annex 9 RSS-Gen Issue 2:2007

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 A9.3, Unwanted radiated emission	Pass
FCC Section 15.407(b) / RSS-210, Section A9.3, Unwanted conducted emission	Pass
FCC Section 15.407(b)(6), 15.207/ RSS-Gen, Section 7.2.2, Conducted emission	Pass
FCC Section 15.407(f), / RSS-Gen, Section 5.5, RF exposure	Provided in documentation for Application
FCC Section 15.407(g), / RSS-210, Section A9.5, Frequency stability	Pass
RSS-Gen, Section 7.2.3.2, Receiver spurious radiated emission	Pass

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.

	Name and Title	Date	Signature
Tested by:	Mr. E. Plotnichenko, test engineer	December 28, 2008	
Reviewed by:	Mrs. M. Cherniavsky, certification engineer	December 30, 2008	
Approved by:	Mr. M. Nikishin, EMC and radio group manager	December 31, 2008	

6 EUT description

6.1 General information

RADWIN 1000/RADWIN 2000 is an outdoor radio unit (ODU). The power and the Ethernet communication are supplied by an indoor unit (IDU) or PoE device. It has 2 antenna configurations – integrated and connectorized that can support dual pole antenna type. RADWIN 1000 activates one RF port and RADWIN 2000 – two ports. The EUT, model RADWIN 2000 was tested with antennas and power settings shown in the table below.

Antenna type	Antenna gain	Feeder loss	Antenna assembly gain	Output power	EIRP, dBm
Dual pole flat panel external	23.5 dBi	1.0	22.5 dBi	7.3 dBm	29.8
Dual pole flat panel integral	23.5 dBi	NA	23.5 dBi	6.3 dBm	29.8
Dual pole dish external	28.9 dBi	1.0	28 dBi	1.3 dBm	29.3

The measurements were performed under the maximum and minimum power settings.

6.2 Ports and lines

Port type	Port description	Connected		Connector type	Q-ty	Cable type	Cable length, m	Indoor / outdoor
		From	To					
Power	-48 VDC	AC/DC adapter	IDU	Terminal block	1	unshielded	1.5	Indoor
Power	AC power	mains	AC/DC adapter	IEC 60320	1	unshielded	1.5	Indoor
RF1	RF1 (Antenna 1)	EUT	antenna	N-type	1	shielded	1	Outdoor*
RF2	RF2 (Antenna 2)	EUT	antenna	N-type	1	shielded	1	Outdoor*
Signal	DC + Ethernet	IDU	EUT	RJ45	1	shielded	20	Outdoor
Signal	Ethernet	IDU	Laptop	RJ45	1	FTP	1.5	Indoor

* - for external antenna configuration only

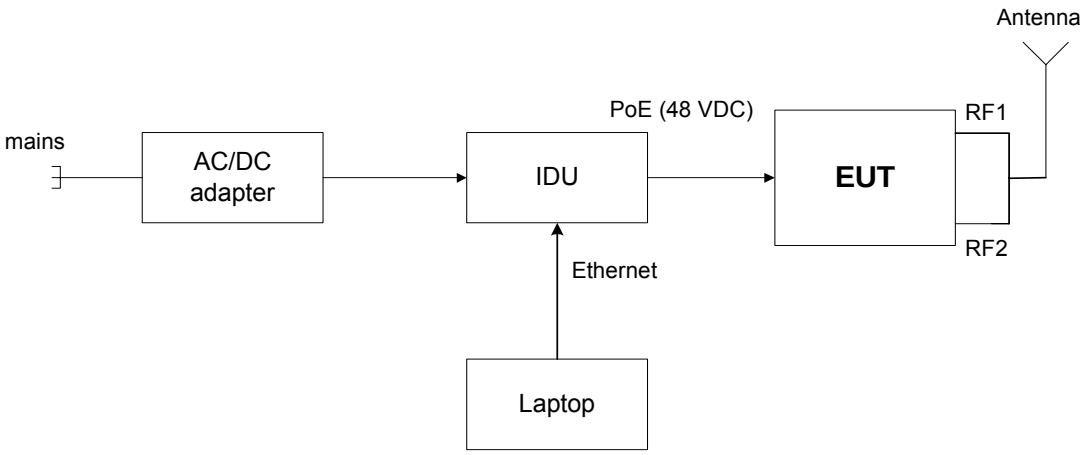
6.3 Support and test equipment

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

6.4 Changes made in the EUT

No changes were implemented.

6.5 Test configuration



6.6 Transmitter characteristics

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)**	7.3 dBm with 22.5 dBi antenna 6.3 dBm with 23.5 dBi antenna 1.3 dBm with 28 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 Integrated	Radwin Ltd.	RW-9611-4958INT	23.5 dBi
Flat Panel – Dual polarized external	Radwin Ltd.	RW-9611-4958	23.5 dBi (feeder loss 1 dB)
Dish – Dual polarized External	Radwin Ltd.	RW-9721-5158	28.9 dBi (feeder loss 1 dB)

Transmitter 99% power bandwidth	Transmitter aggregate data rate/s, MBps	Type of modulation
5 MHz	3.25 6.5, 9.75 13, 19.5 26, 29.25, 32.5	BPSK QPSK 16QAM 64QAM
10 MHz	6.5 13, 19.5 26, 39 52, 58.5, 65	BPSK QPSK 16QAM 64QAM
20 MHz	13 26, 39 52, 78 104, 117, 130	BPSK QPSK 16QAM 64QAM

Maximum transmitter duty cycle in normal use	40%
Transmitter duty cycle supplied for test	100%

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

Channel bandwidth, MHz	Channel frequency, MHz		
	Low	Mid	High
5	5480	5590	5715
10	5485	5585	5710
20	5490	5580	5705

Table 6.6.2 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

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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**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.

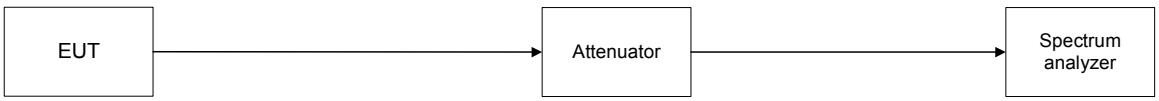
7.1.2.3 The measurements were performed in continuous transmission mode of operation for carrier (channel) frequencies at low and high edges and at the middle of the frequency range shown in Table 7.1.1. The transmitter 26 dB bandwidth was measured with spectrum analyzer as frequency delta between reference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

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

7.1.2.5 The peak output power measurements were performed in continuous transmission mode of operation for carrier (channel) frequency at low, mid and high edges with a sample detector. The power was computed by integrating the spectrum across the 26 dB bandwidth of the signal as provided in Table 7.1.2, Table 7.1.4 and associated plots.

7.1.2.6 The peak power spectral density was measured using a sample detector and power averaging mode to find the highest level across the emission in any 1-MHz band after 100 sweeps of averaging. The test results are provided in Table 7.1.3, Table 7.1.5 and associated 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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.1.2 Conducted output power test results

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

Frequency, MHz	26 dB Bandwidth	Bit Rate, MBps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel								
5490	23.850	13	BPSK	4.28	7.28	7.50	-0.22	Pass
5490	23.400	130	64QAM	4.17	7.17	7.50	-0.33	Pass
5485	12.800	6.5	BPSK	1.31	4.31	5.57	-1.26	Pass
5485	12.450	65	64QAM	1.43	4.43	5.45	-1.02	Pass
5480	6.800	3.25	BPSK	-1.32	1.68	2.83	-1.15	Pass
5480	7.000	32.5	64QAM	-1.63	1.37	2.95	-1.58	Pass
First mid channel								
5580	24.000	13	BPSK	3.84	6.84	7.50	-0.66	Pass
5580	23.400	130	64QAM	4.03	7.03	7.50	-0.47	Pass
5585	12.950	6.5	BPSK	0.41	3.41	5.62	-2.21	Pass
5585	12.300	65	64QAM	0.38	3.38	5.40	-2.02	Pass
5590	6.950	3.25	BPSK	-2.46	0.54	2.92	-2.38	Pass
5590	7.000	32.5	64QAM	-2.69	0.31	2.95	-2.64	Pass
Second mid channel (for IC only)								
5670	24.150	13	BPSK	2.63	5.63	7.50	-1.87	Pass
5670	23.700	130	64QAM	2.65	5.65	7.50	-1.85	Pass
5665	12.750	6.5	BPSK	-0.96	2.04	5.56	-3.52	Pass
5665	12.650	65	64QAM	-0.58	2.42	5.52	-3.10	Pass
5660	6.825	3.25	BPSK	-3.64	-0.64	2.84	-3.48	Pass
5660	6.700	32.5	64QAM	-3.29	-0.29	2.76	-3.05	Pass
High channel								
5705	23.775	13	BPSK	2.52	5.52	7.50	-1.98	Pass
5705	23.625	130	64QAM	2.01	5.01	7.50	-2.49	Pass
5710	12.900	6.5	BPSK	-1.31	1.69	5.61	-3.92	Pass
5710	12.500	65	64QAM	-1.36	1.64	5.47	-3.83	Pass
5715	7.175	3.25	BPSK	-3.15	-0.15	3.06	-3.21	Pass
5715	7.125	32.5	64QAM	-3.09	-0.09	3.03	-3.12	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.

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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.1.3 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz
MODULATING SIGNAL: OFDM
TRANSMITTER OUTPUT POWER SETTINGS: "9.5 dBm" at 5 MHz channel bandwidth
"12 dBm" at 10 MHz channel bandwidth
"15 dBm" at 20 MHz channel bandwidth
DETECTOR USED: Sample
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz
METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

Frequency, MHz	Bit Rate, MBps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel							
5490	13	BPSK	-13.00	-10.00	-5.5	-4.50	Pass
5490	130	64QAM	-12.65	-9.65	-5.5	-4.15	Pass
5485	6.5	BPSK	-13.27	-10.27	-5.5	-4.77	Pass
5485	65	64QAM	-12.98	-9.98	-5.5	-4.48	Pass
5480	3.25	BPSK	-12.91	-9.91	-5.5	-4.41	Pass
5480	32.5	64QAM	-13.22	-10.22	-5.5	-4.72	Pass
First mid channel							
5580	13	BPSK	-13.18	-10.18	-5.5	-4.68	Pass
5580	130	64QAM	-13.06	-10.06	-5.5	-4.56	Pass
5585	6.5	BPSK	-14.40	-11.40	-5.5	-5.90	Pass
5585	65	64QAM	-14.23	-11.23	-5.5	-5.73	Pass
5590	3.25	BPSK	-14.41	-11.41	-5.5	-5.91	Pass
5590	32.5	64QAM	-14.17	-11.17	-5.5	-5.67	Pass
Second mid channel (for IC only)							
5670	13	BPSK	-14.23	-11.23	-5.5	-5.73	Pass
5670	130	64QAM	-14.38	-11.38	-5.5	-5.88	Pass
5665	6.5	BPSK	-15.21	-12.21	-5.5	-6.71	Pass
5665	65	64QAM	-15.23	-12.23	-5.5	-6.73	Pass
5660	3.25	BPSK	-15.19	-12.19	-5.5	-6.69	Pass
5660	32.5	64QAM	-14.90	-11.90	-5.5	-6.40	Pass
High channel							
5705	13	BPSK	-14.64	-11.64	-5.5	-6.14	Pass
5705	130	64QAM	-15.07	-12.07	-5.5	-6.57	Pass
5710	6.5	BPSK	-16.00	-13.00	-5.5	-7.50	Pass
5710	65	64QAM	-15.57	-12.57	-5.5	-7.07	Pass
5715	3.25	BPSK	-14.86	-11.86	-5.5	-6.36	Pass
5715	32.5	64QAM	-14.62	-11.62	-5.5	-6.12	Pass

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

Reference numbers of test equipment used

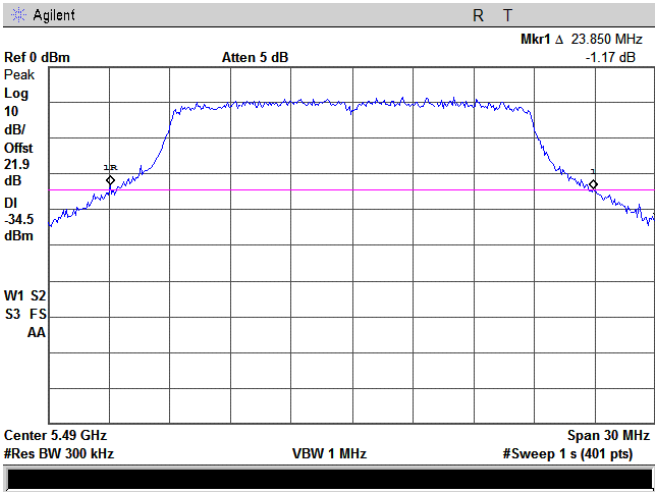
HL 2883	HL2909	HL 3180					

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

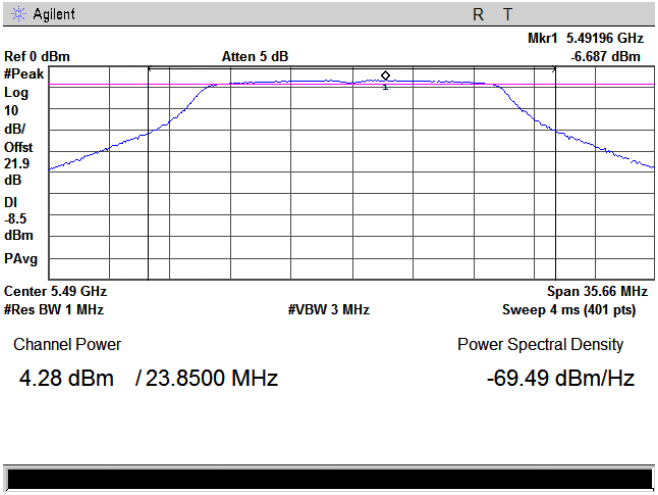
Plot 7.1.1 The 26 dB emission bandwidth

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



Plot 7.1.2 Peak output power

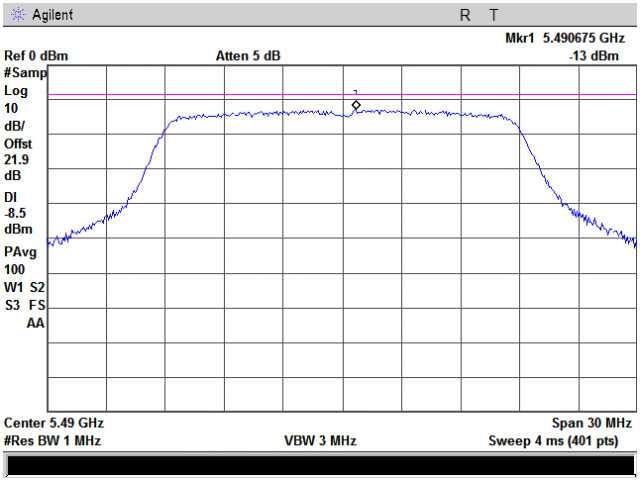
Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

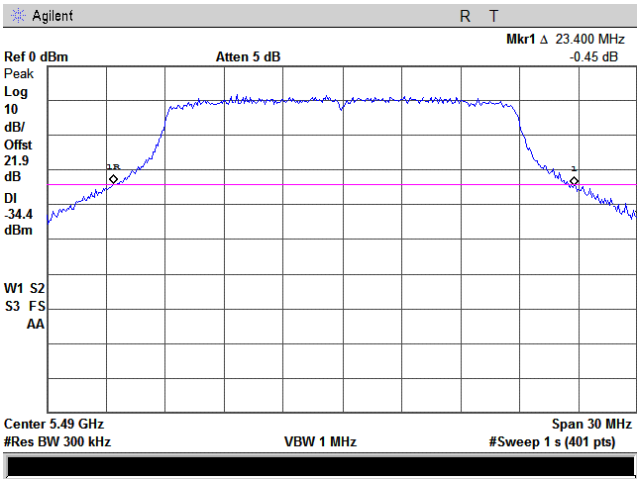
Plot 7.1.3 Peak spectral power density

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



Plot 7.1.4 The 26 dB emission bandwidth

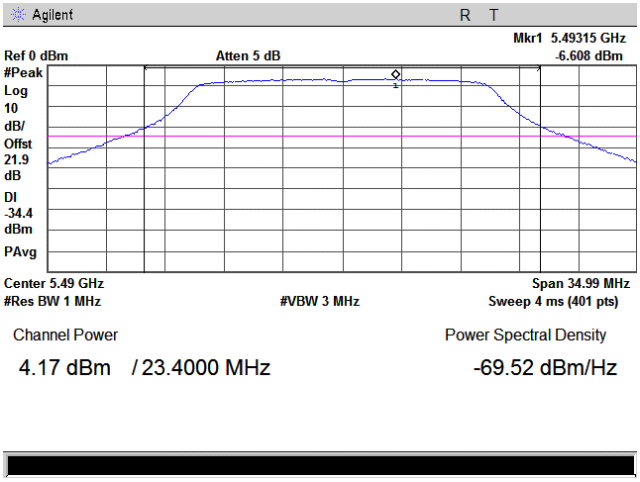
Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

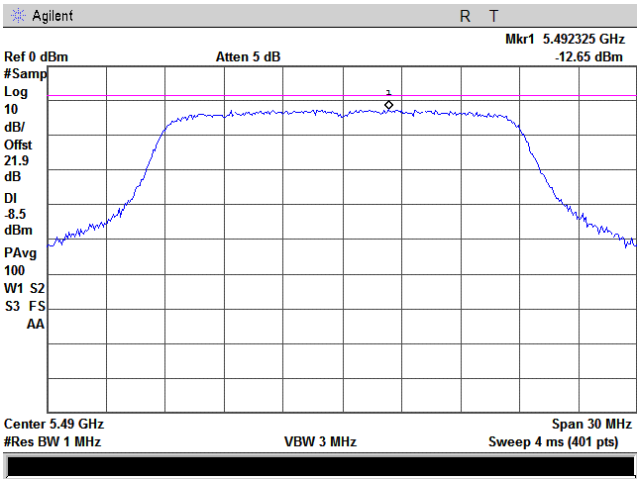
Plot 7.1.5 Peak output power

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



Plot 7.1.6 Peak spectral power density

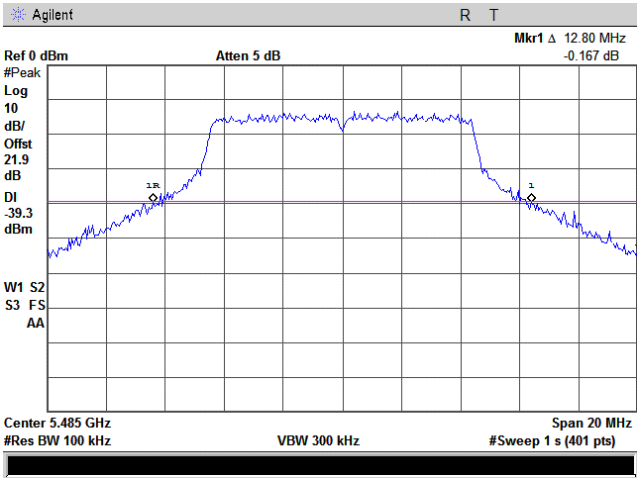
Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

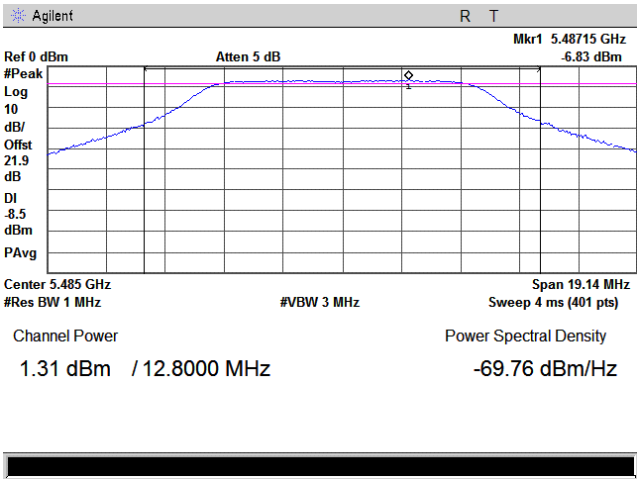
Plot 7.1.7 The 26 dB emission bandwidth

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



Plot 7.1.8 Peak output power

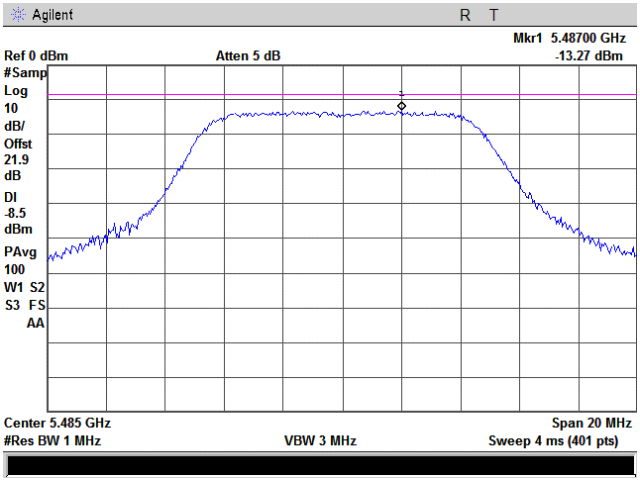
Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

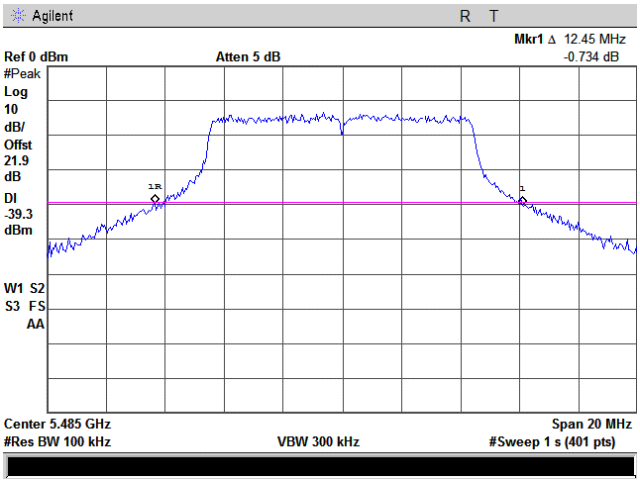
Plot 7.1.9 Peak spectral power density

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



Plot 7.1.10 The 26 dB emission bandwidth

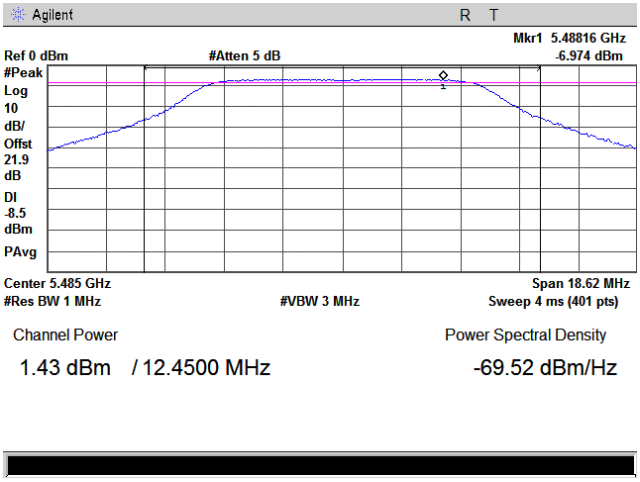
Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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

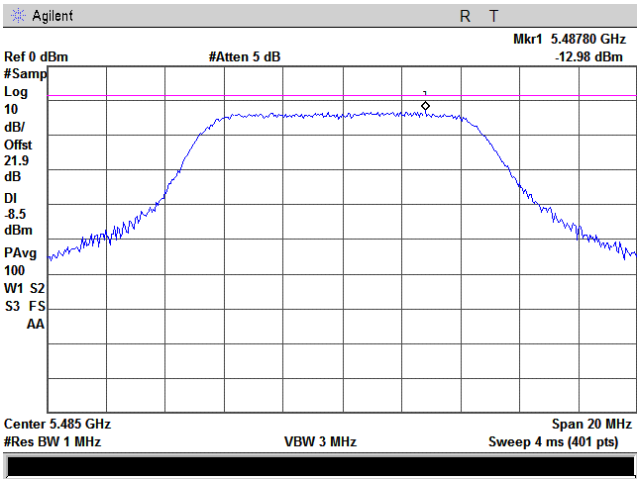
Plot 7.1.11 Peak output power

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



Plot 7.1.12 Peak spectral power density

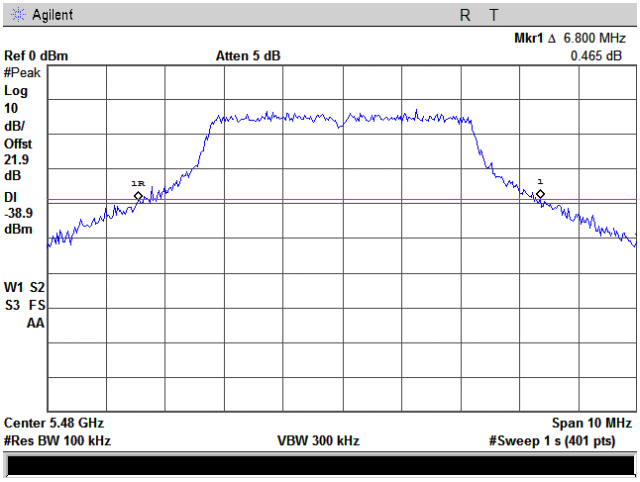
Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

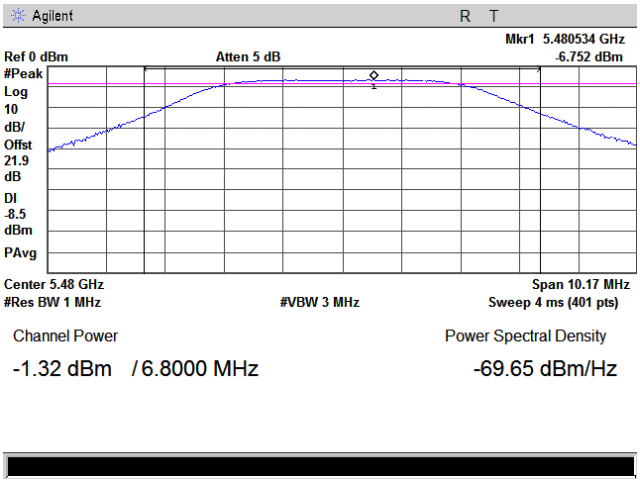
Plot 7.1.13 The 26 dB emission bandwidth

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



Plot 7.1.14 Peak output power

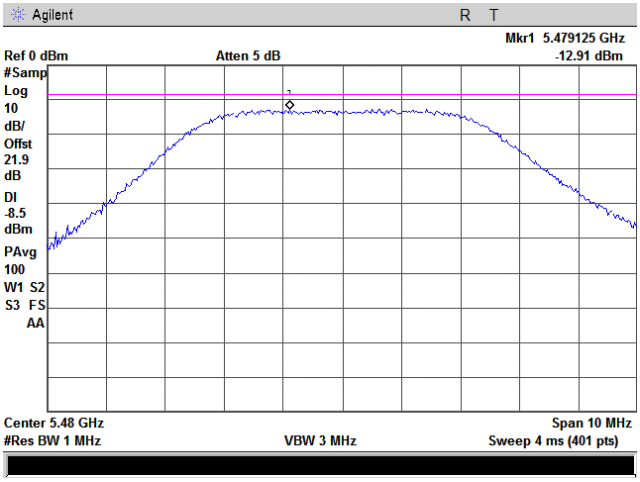
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

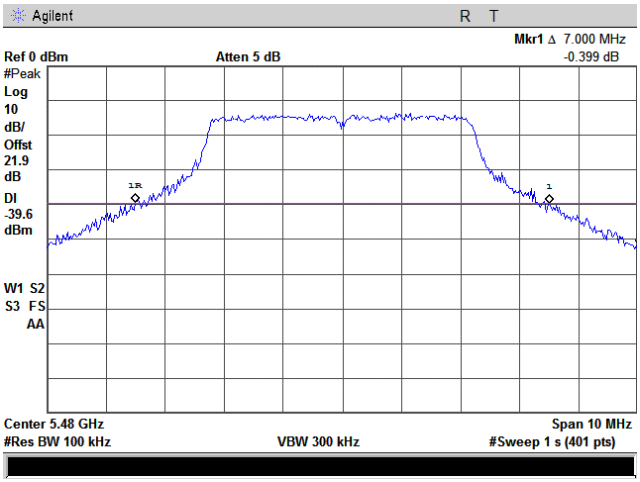
Plot 7.1.15 Peak spectral power density

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



Plot 7.1.16 The 26 dB emission bandwidth

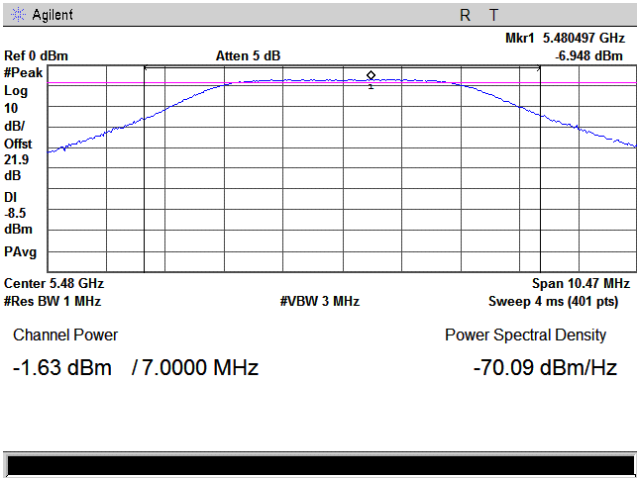
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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

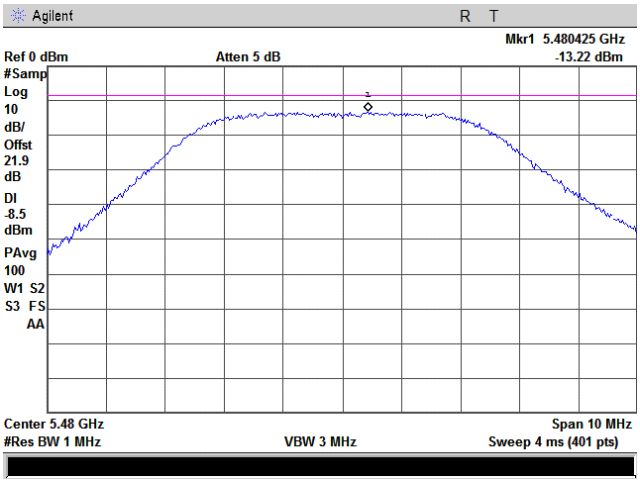
Plot 7.1.17 Peak output power

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



Plot 7.1.18 Peak spectral power density

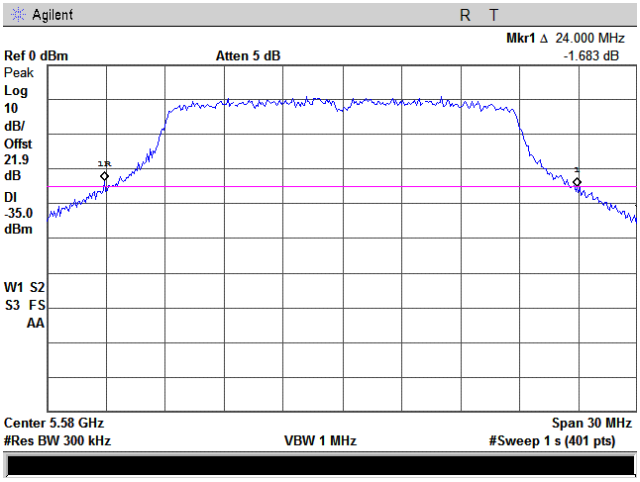
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

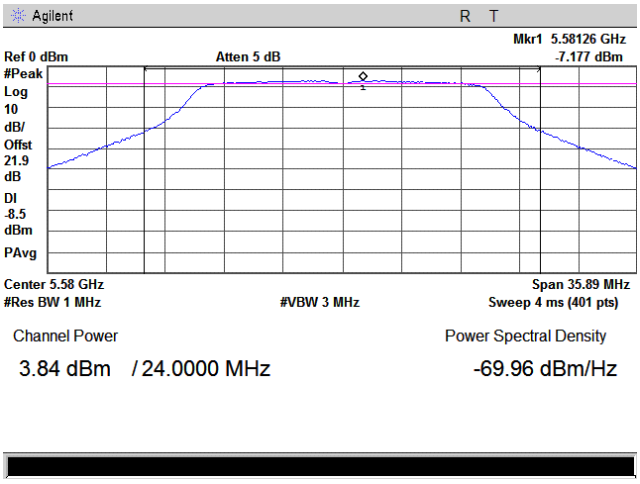
Plot 7.1.19 The 26 dB emission bandwidth

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



Plot 7.1.20 Peak output power

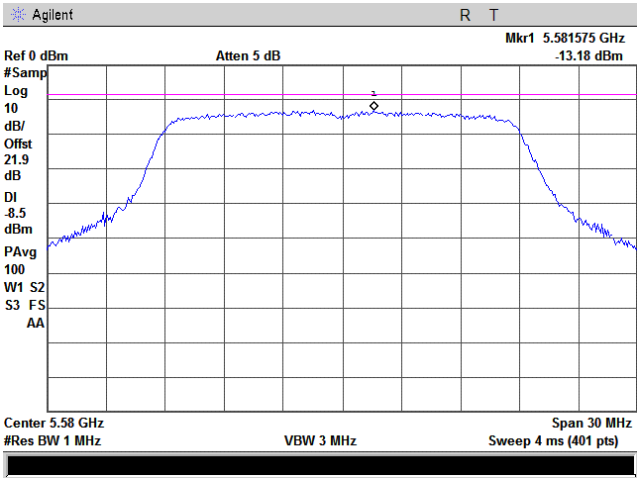
Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

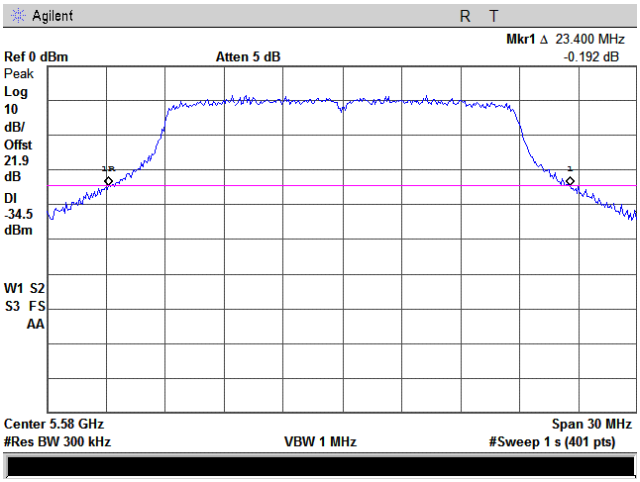
Plot 7.1.21 Peak spectral power density

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



Plot 7.1.22 The 26 dB emission bandwidth

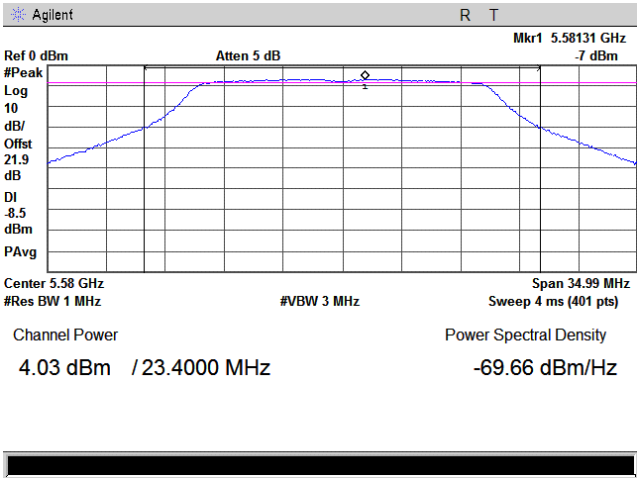
Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

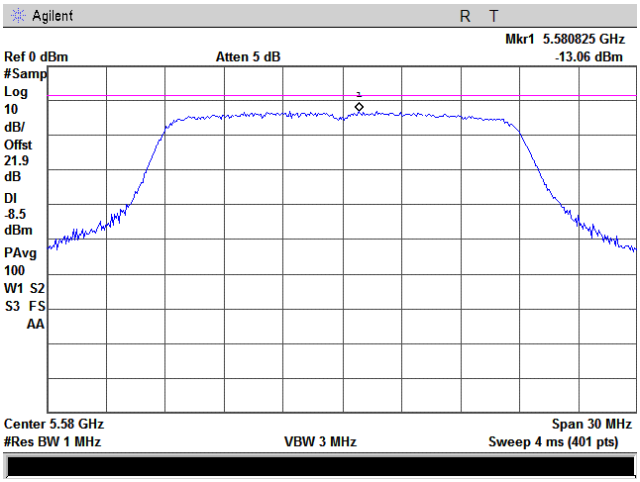
Plot 7.1.23 Peak output power

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



Plot 7.1.24 Peak spectral power density

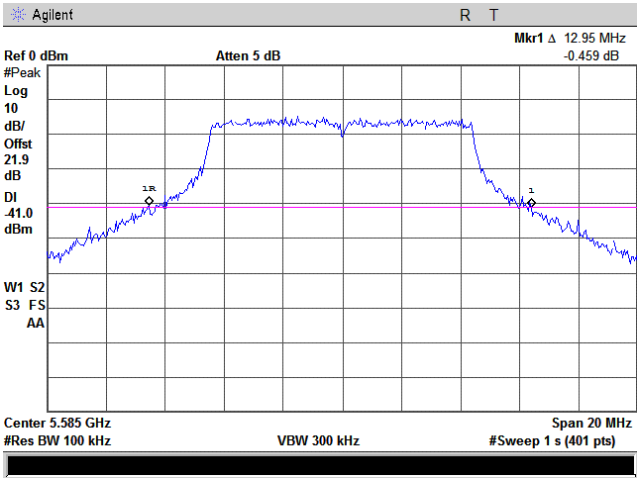
Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

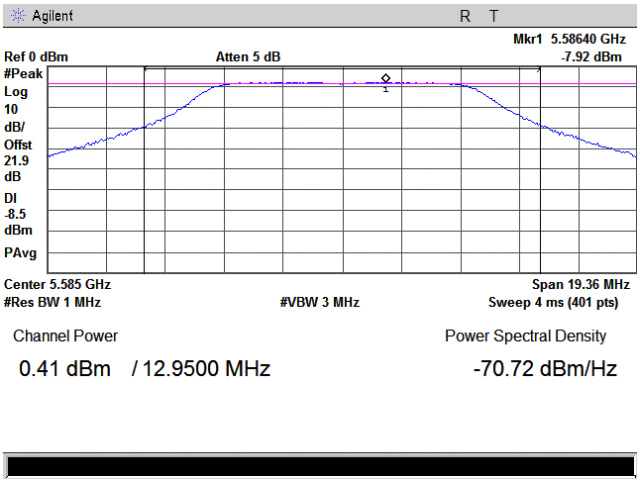
Plot 7.1.25 The 26 dB emission bandwidth

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



Plot 7.1.26 Peak output power

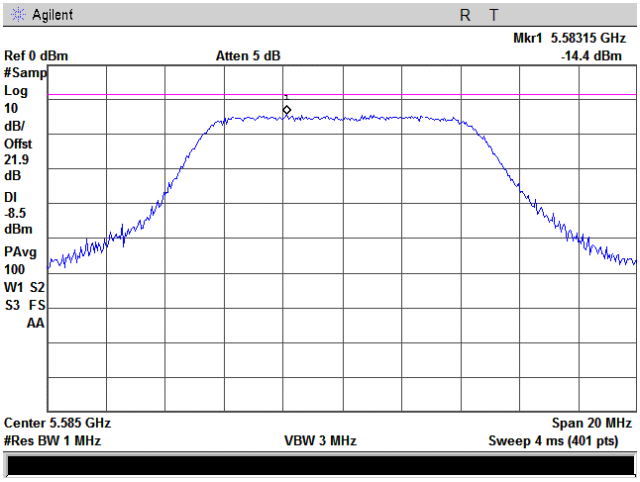
Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

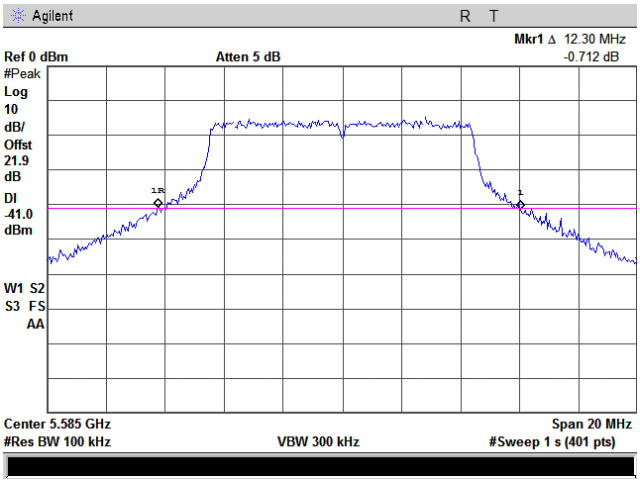
Plot 7.1.27 Peak spectral power density

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



Plot 7.1.28 The 26 dB emission bandwidth

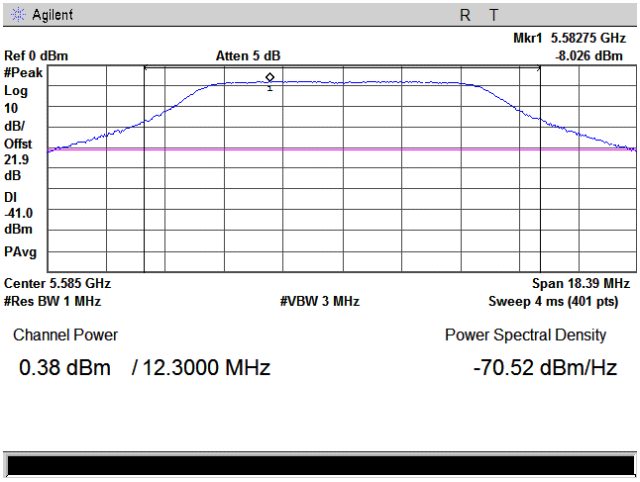
Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

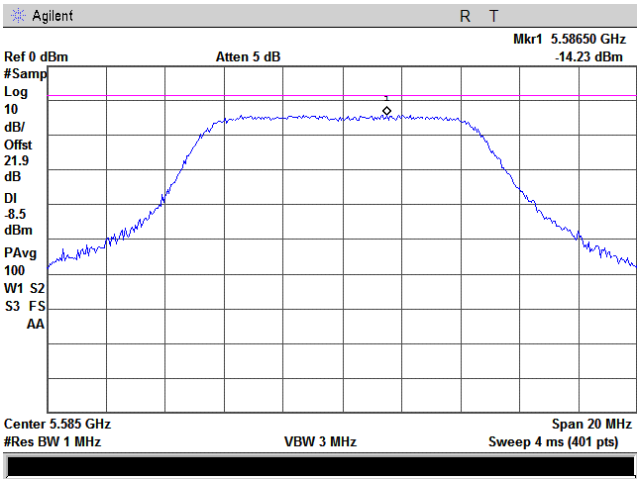
Plot 7.1.29 Peak output power

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



Plot 7.1.30 Peak spectral power density

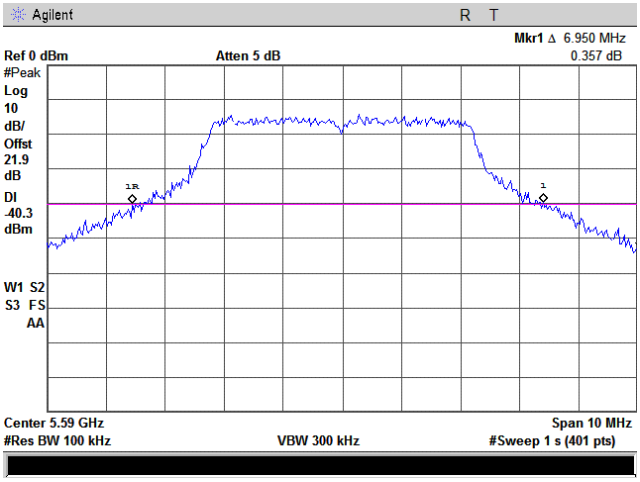
Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

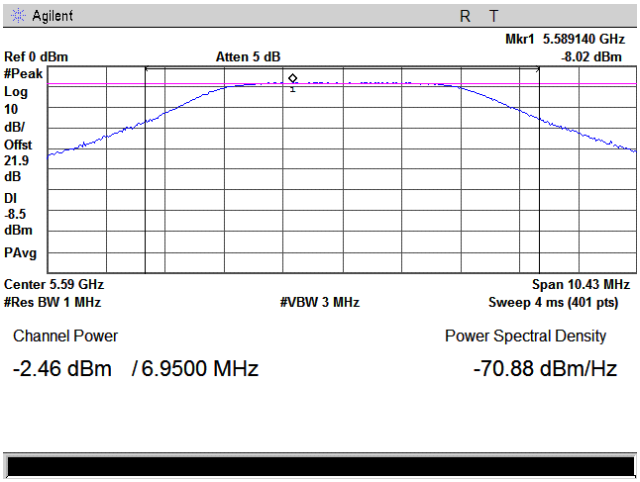
Plot 7.1.31 The 26 dB emission bandwidth

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



Plot 7.1.32 Peak output power

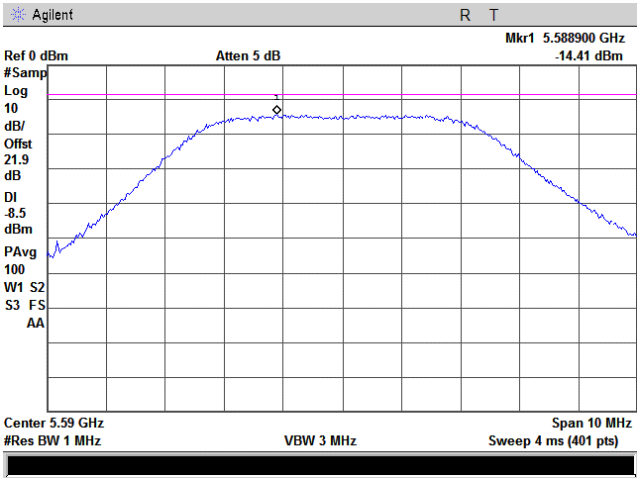
Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

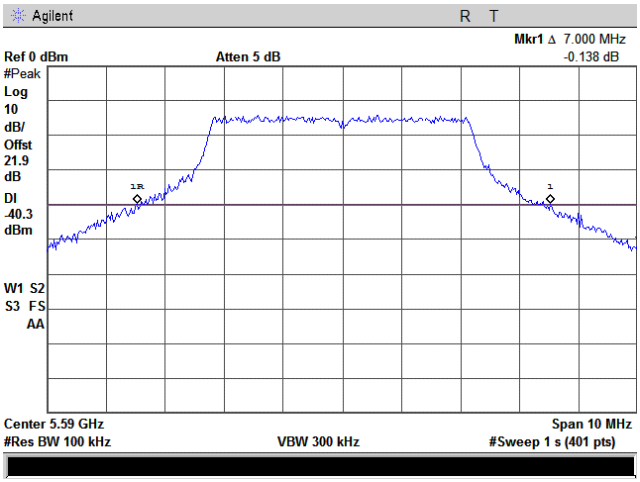
Plot 7.1.33 Peak spectral power density

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



Plot 7.1.34 The 26 dB emission bandwidth

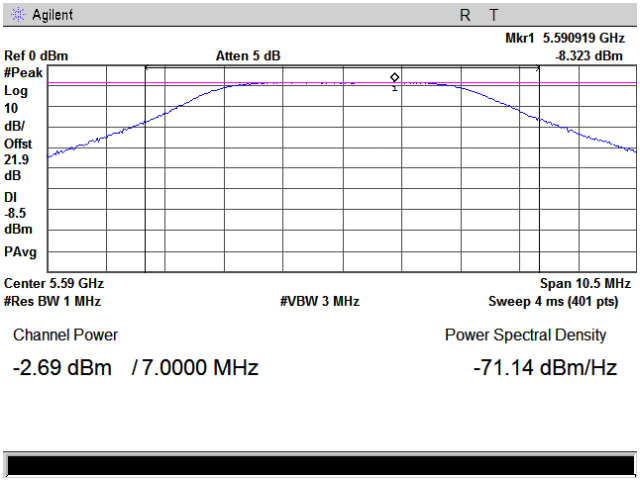
Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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

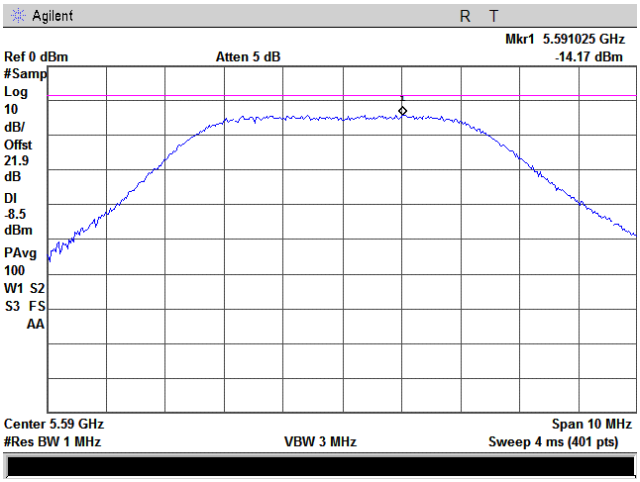
Plot 7.1.35 Peak output power

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



Plot 7.1.36 Peak spectral power density

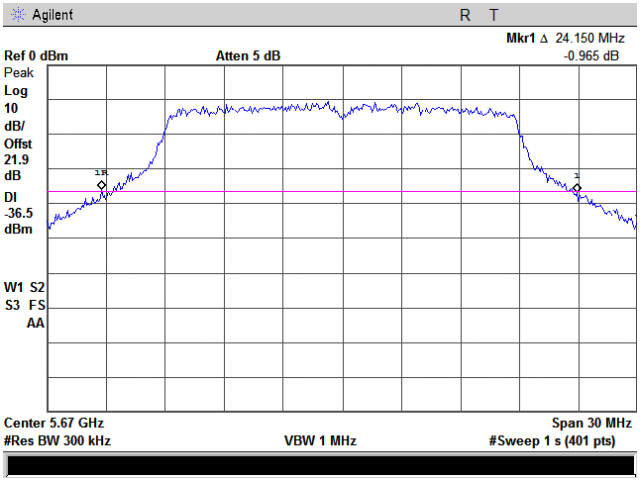
Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

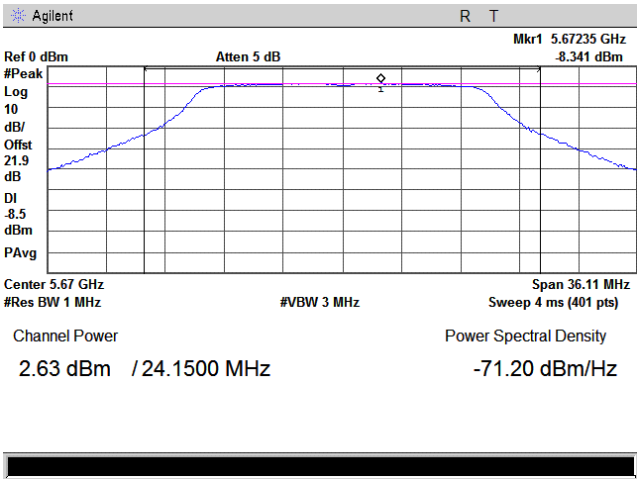
Plot 7.1.37 The 26 dB emission bandwidth

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



Plot 7.1.38 Peak output power

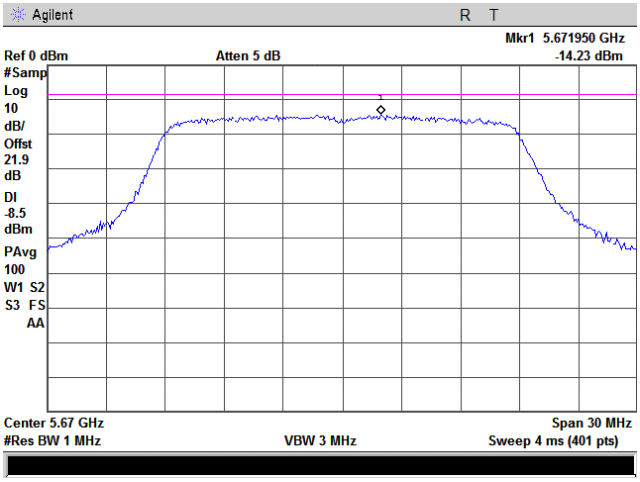
Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

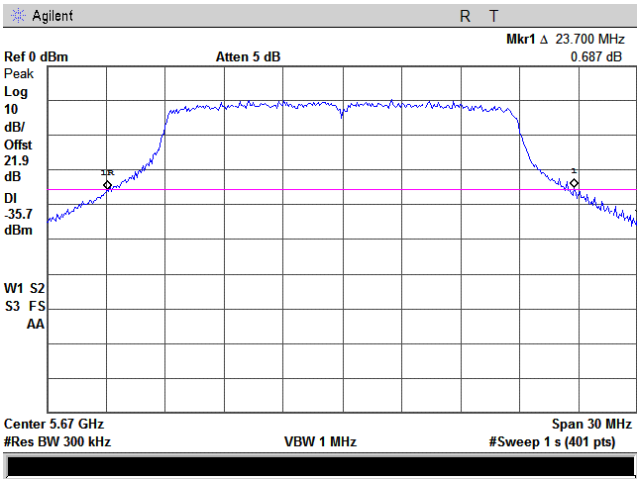
Plot 7.1.39 Peak spectral power density

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



Plot 7.1.40 The 26 dB emission bandwidth

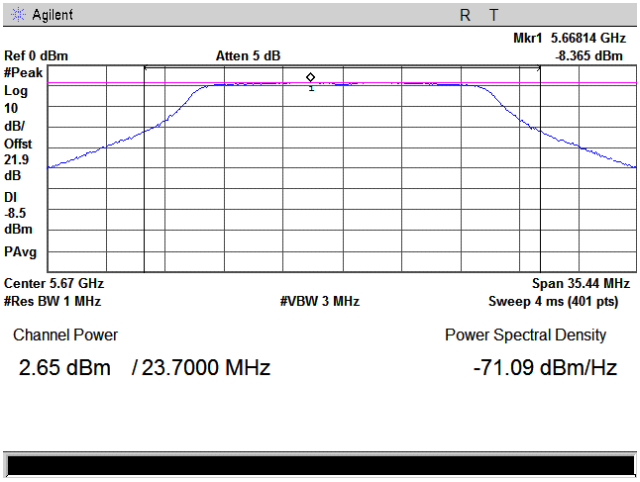
Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

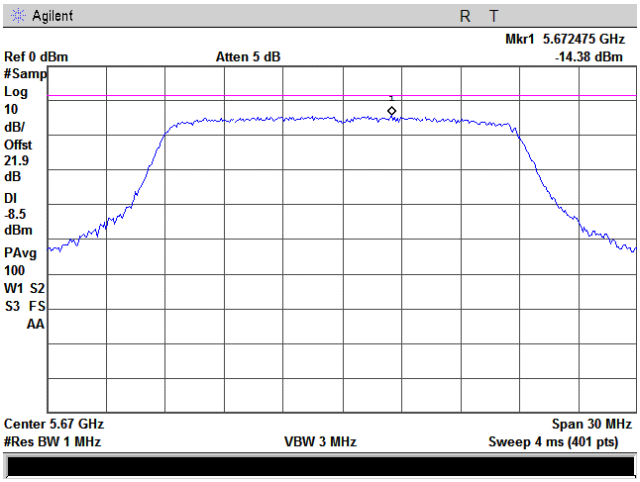
Plot 7.1.41 Peak output power

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



Plot 7.1.42 Peak spectral power density

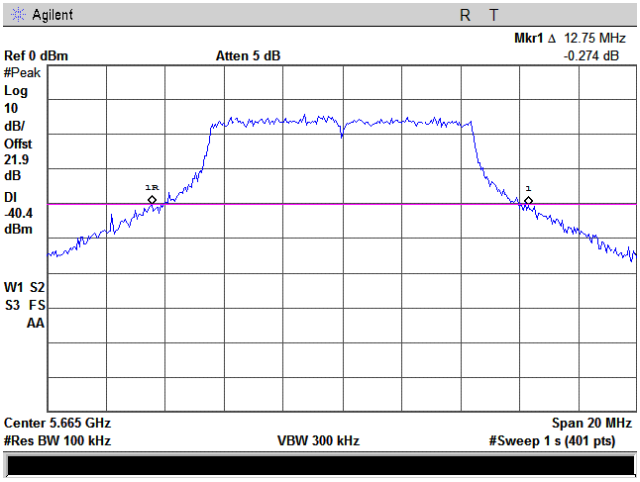
Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

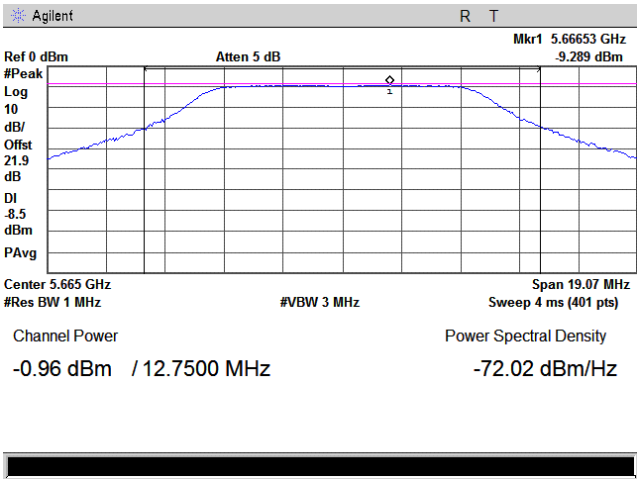
Plot 7.1.43 The 26 dB emission bandwidth

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



Plot 7.1.44 Peak output power

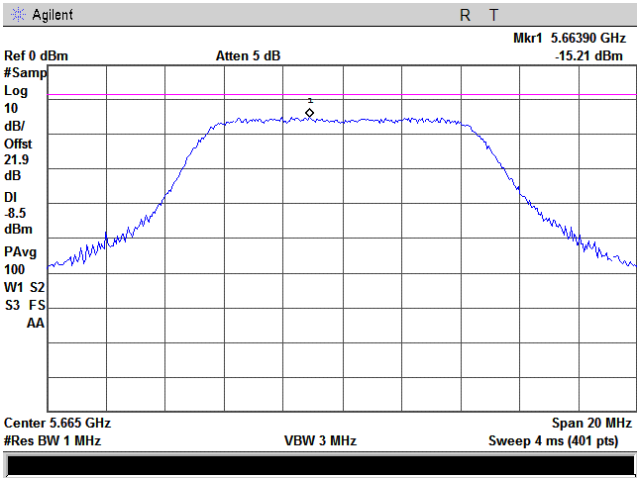
Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

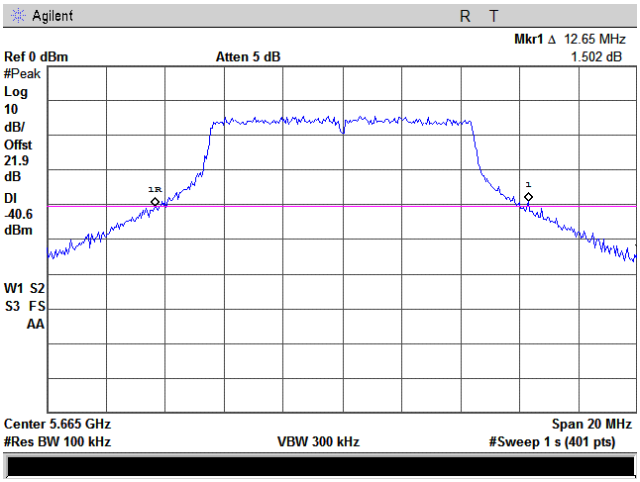
Plot 7.1.45 Peak spectral power density

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



Plot 7.1.46 The 26 dB emission bandwidth

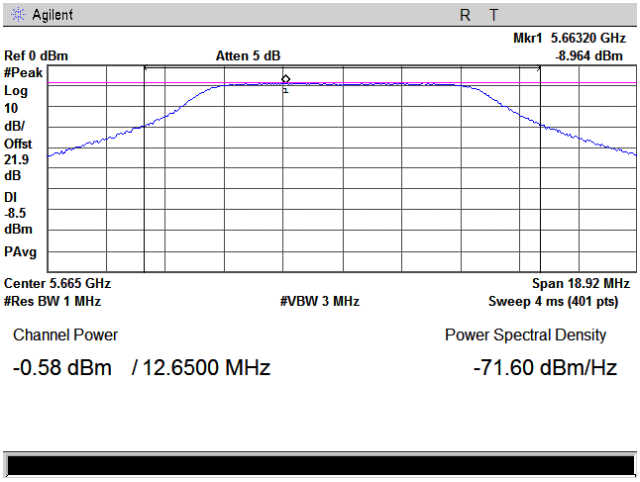
Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

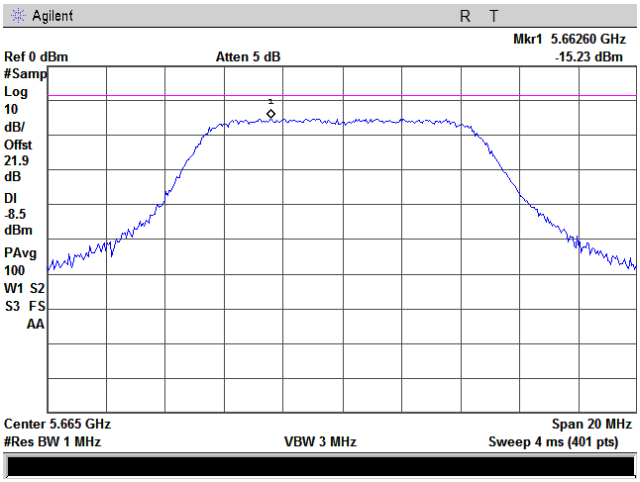
Plot 7.1.47 Peak output power

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



Plot 7.1.48 Peak spectral power density

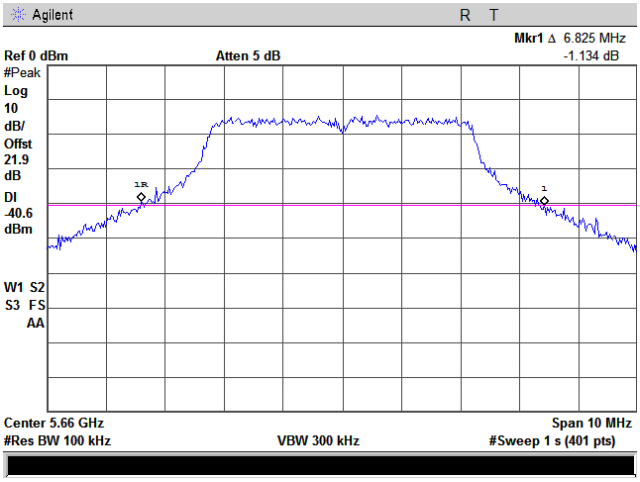
Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

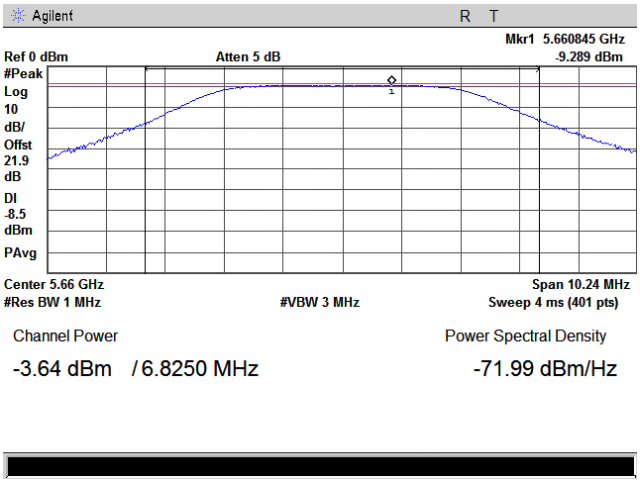
Plot 7.1.49 The 26 dB emission bandwidth

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



Plot 7.1.50 Peak output power

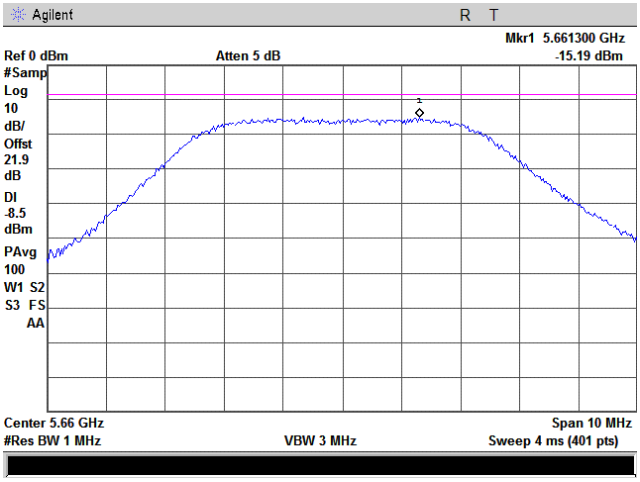
Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

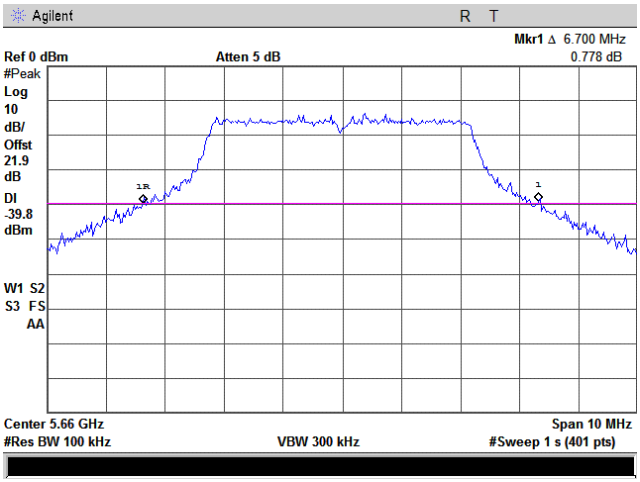
Plot 7.1.51 Peak spectral power density

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



Plot 7.1.52 The 26 dB emission bandwidth

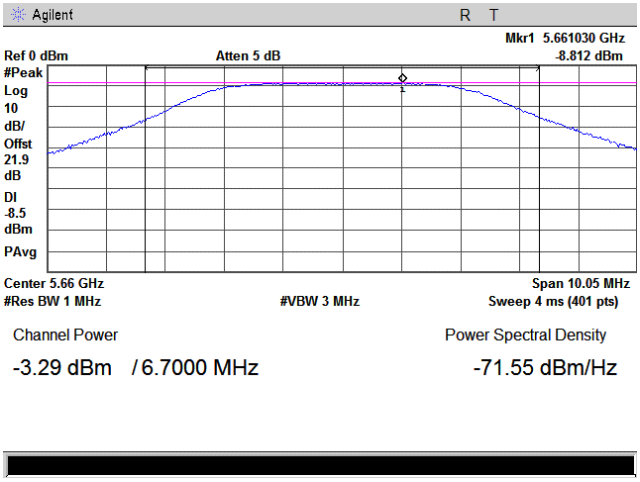
Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

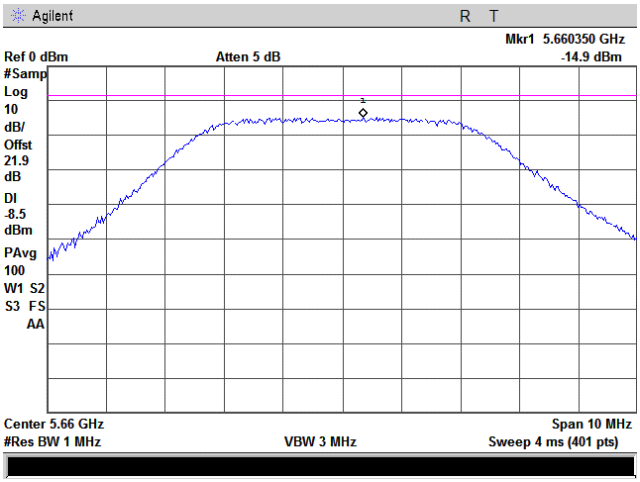
Plot 7.1.53 Peak output power

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



Plot 7.1.54 Peak spectral power density

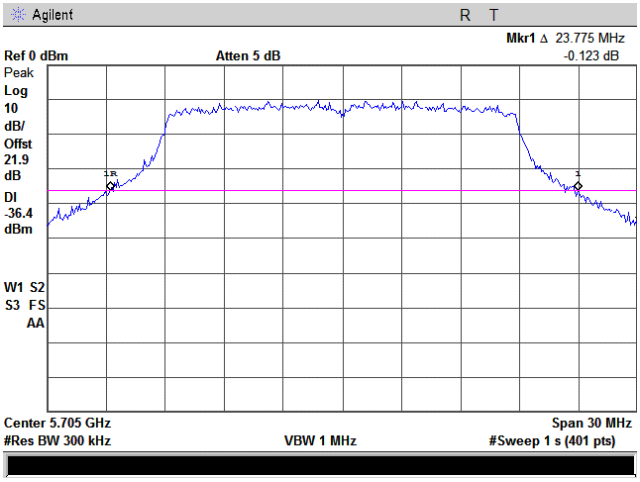
Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

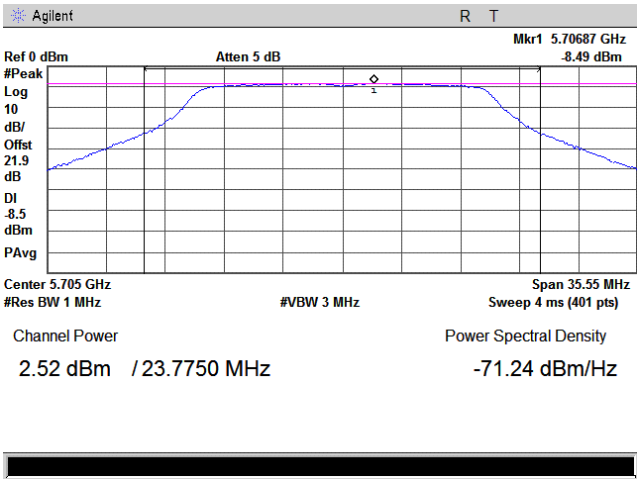
Plot 7.1.55 The 26 dB emission bandwidth

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



Plot 7.1.56 Peak output power

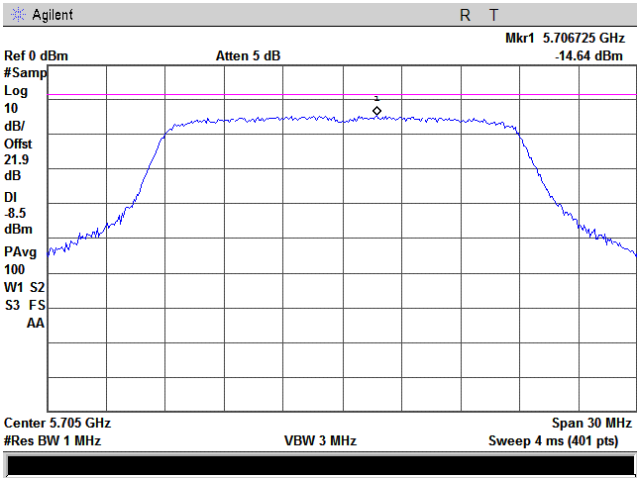
Frequency:	5705 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

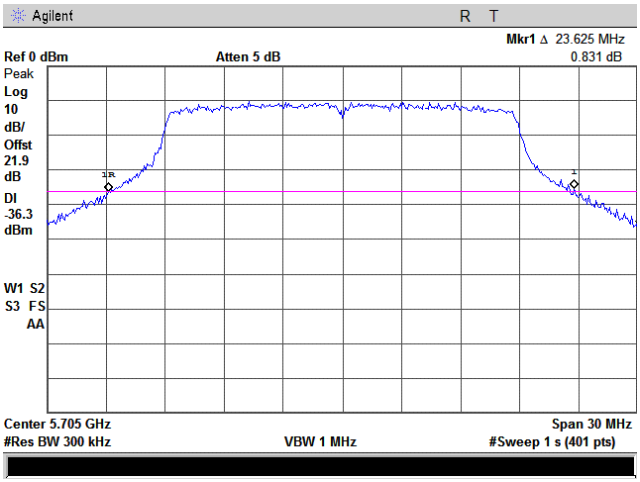
Plot 7.1.57 Peak spectral power density

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



Plot 7.1.58 The 26 dB emission bandwidth

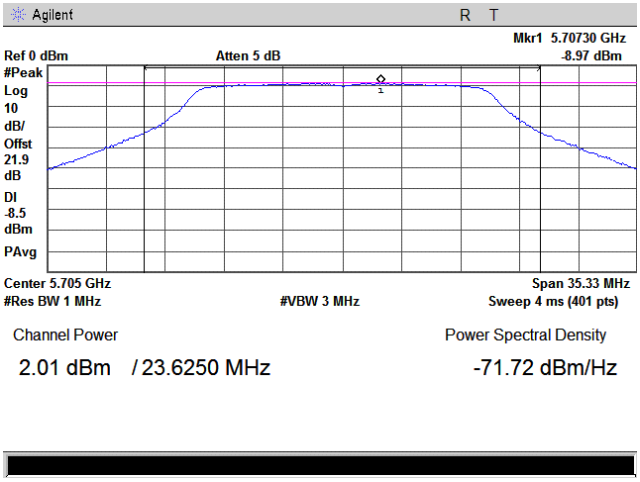
Frequency:	5705 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

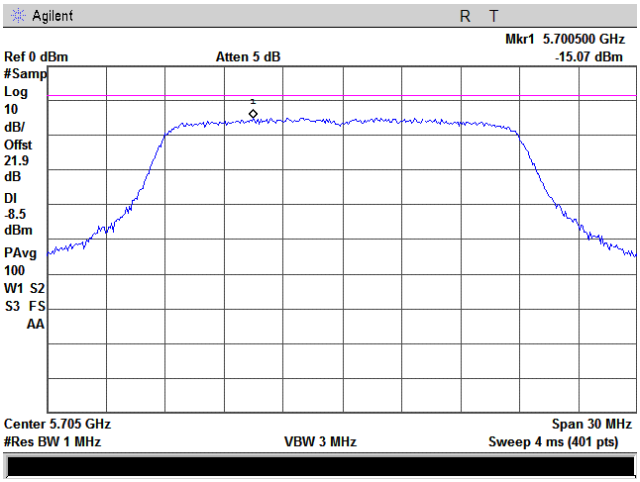
Plot 7.1.59 Peak output power

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



Plot 7.1.60 Peak spectral power density

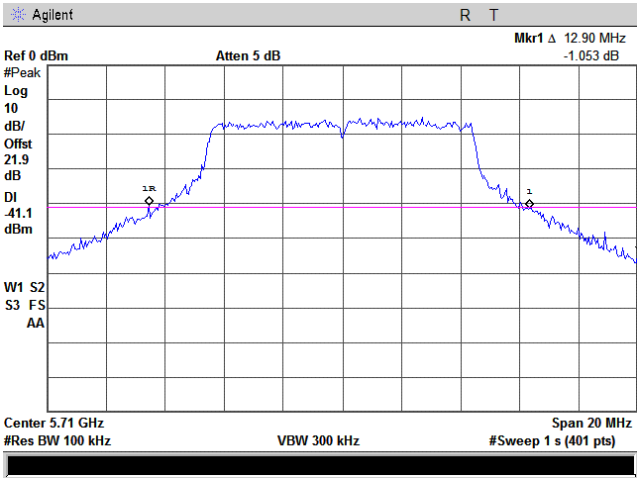
Frequency:	5705 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

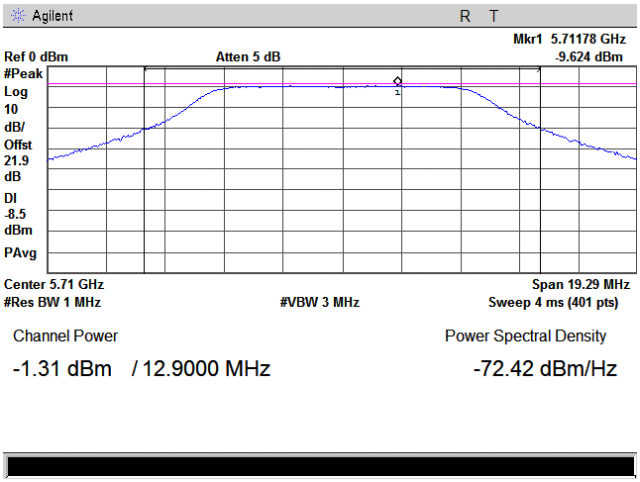
Plot 7.1.61 The 26 dB emission bandwidth

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



Plot 7.1.62 Peak output power

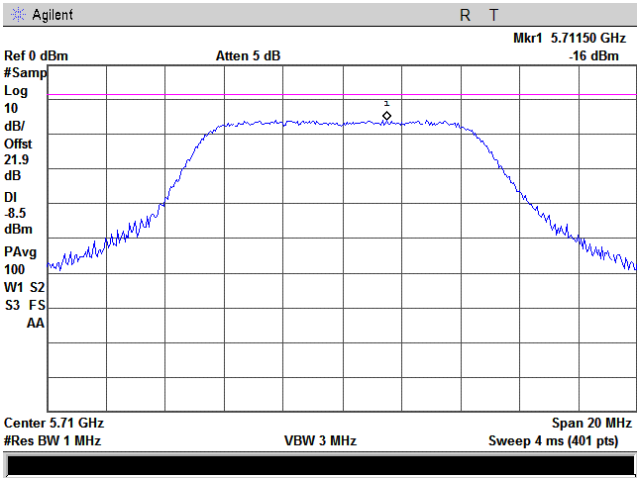
Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

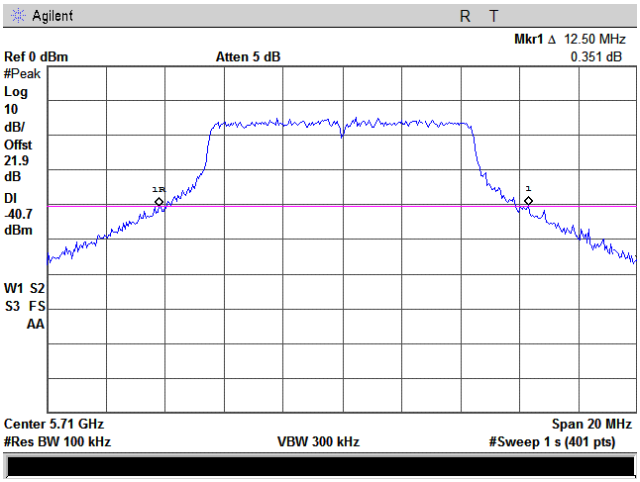
Plot 7.1.63 Peak spectral power density

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



Plot 7.1.64 The 26 dB emission bandwidth

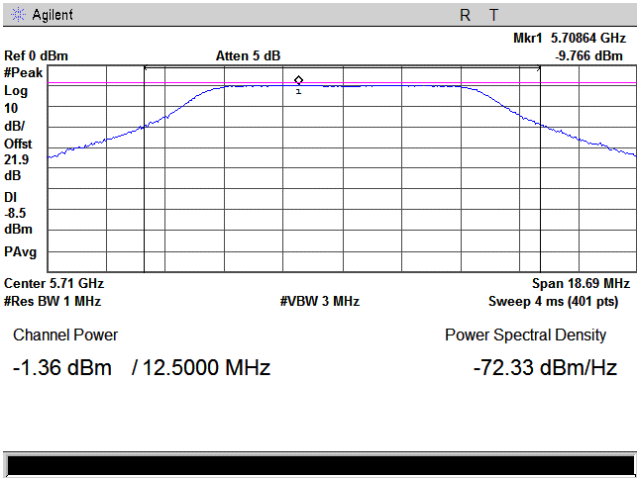
Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

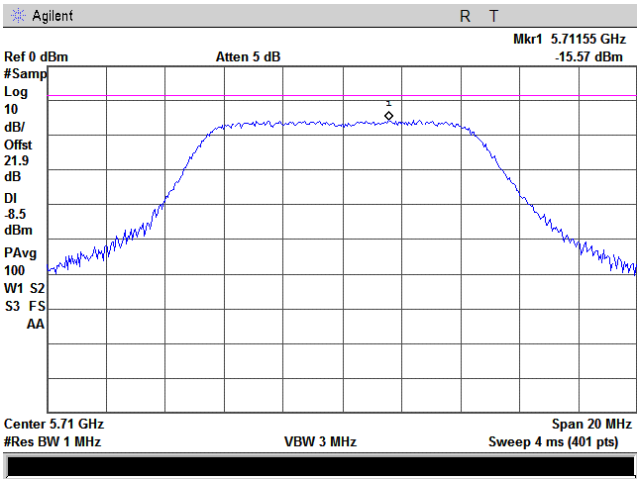
Plot 7.1.65 Peak output power

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



Plot 7.1.66 Peak spectral power density

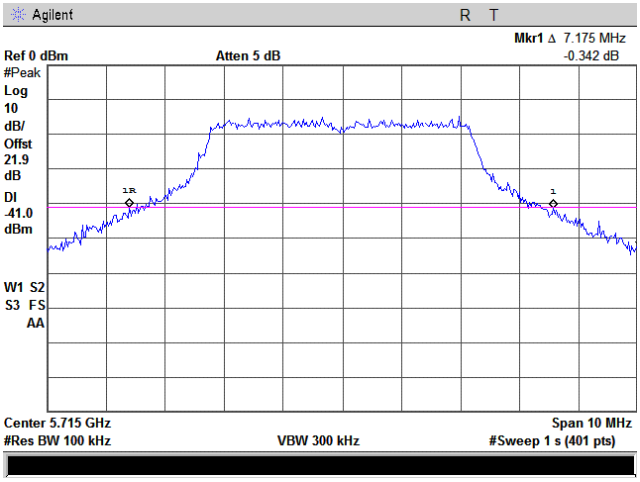
Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

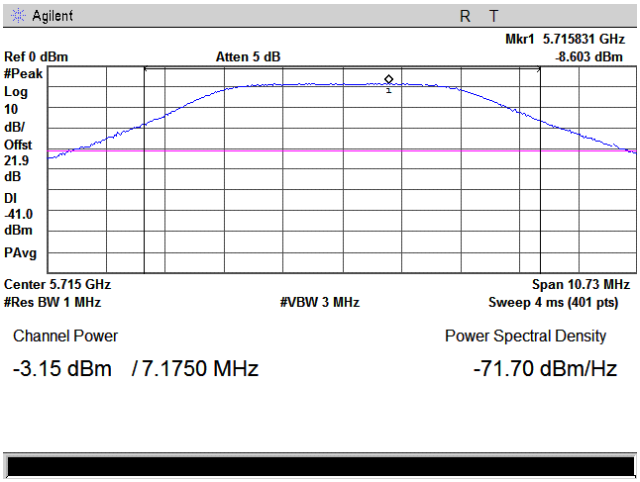
Plot 7.1.67 The 26 dB emission bandwidth

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



Plot 7.1.68 Peak output power

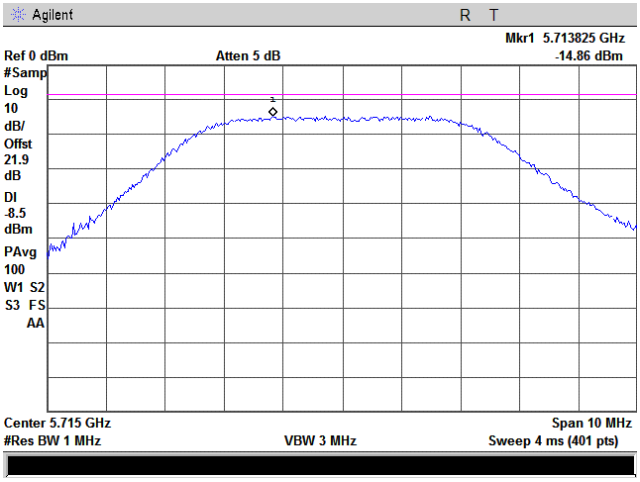
Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

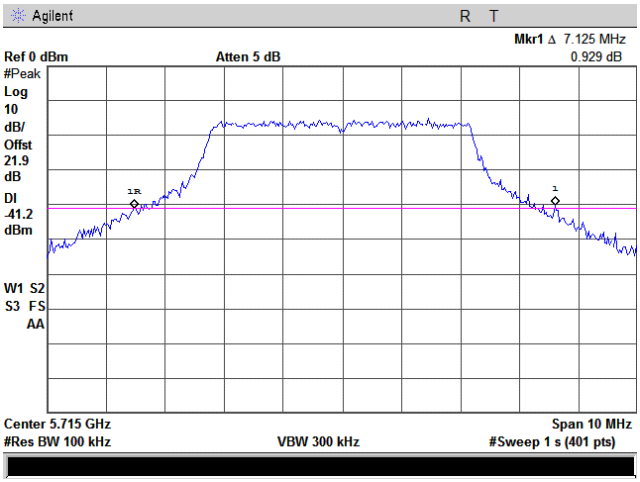
Plot 7.1.69 Peak spectral power density

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



Plot 7.1.70 The 26 dB emission bandwidth

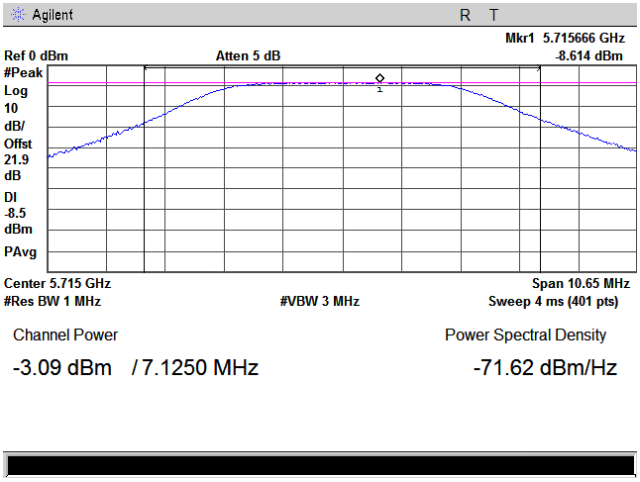
Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

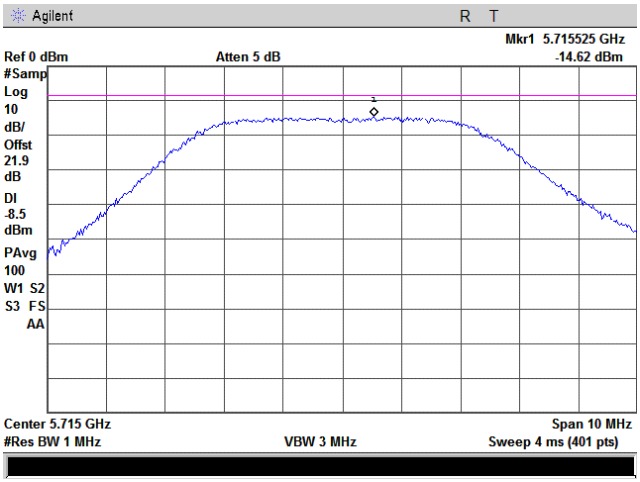
Plot 7.1.71 Peak output power

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



Plot 7.1.72 Peak spectral power density

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



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

Table 7.1.4 Conducted output power test results

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

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

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

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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

Table 7.1.5 Peak power spectral density test results

ASSIGNED FREQUENCY: 5470-5725 MHz
MODULATING SIGNAL: OFDM
TRANSMITTER OUTPUT POWER SETTINGS: "5 dBm" at 5 MHz channel bandwidth
"7.5 dBm" at 10 MHz channel bandwidth
"9.5 dBm" at 20 MHz channel bandwidth
DETECTOR USED: Sample
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz
METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

Frequency, MHz	Bit Rate, MBps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm	Limit, dBm	Margin, dB**	
Low channel							
5490	13	BPSK	-19.71	-16.71	-11.00	-5.71	Pass
5490	130	64QAM	-20.84	-17.84	-11.00	-6.84	Pass
5485	6.5	BPSK	-18.66	-15.66	-11.00	-4.66	Pass
5485	65	64QAM	-19.97	-16.97	-11.00	-5.97	Pass
5480	3.25	BPSK	-18.81	-15.81	-11.00	-4.81	Pass
5480	32.5	64QAM	-18.11	-15.11	-11.00	-4.11	Pass
First mid channel							
5580	13	BPSK	-18.72	-15.72	-11.00	-4.72	Pass
5580	130	64QAM	-18.67	-15.67	-11.00	-4.67	Pass
5585	6.5	BPSK	-17.55	-14.55	-11.00	-3.55	Pass
5585	65	64QAM	-16.90	-13.90	-11.00	-2.90	Pass
5590	3.25	BPSK	-17.91	-14.91	-11.00	-3.91	Pass
5590	32.5	64QAM	-17.62	-14.62	-11.00	-3.62	Pass
Second mid channel (for IC only)							
5670	13	BPSK	-18.89	-15.89	-11.00	-4.89	Pass
5670	130	64QAM	-18.10	-15.10	-11.00	-4.10	Pass
5665	6.5	BPSK	-18.13	-15.13	-11.00	-4.13	Pass
5665	65	64QAM	-17.68	-14.68	-11.00	-3.68	Pass
5660	3.25	BPSK	-17.35	-14.35	-11.00	-3.35	Pass
5660	32.5	64QAM	-17.40	-14.40	-11.00	-3.40	Pass
High channel							
5705	13	BPSK	-18.27	-15.27	-11.00	-4.27	Pass
5705	130	64QAM	-18.71	-15.71	-11.00	-4.71	Pass
5710	6.5	BPSK	-18.03	-15.03	-11.00	-4.03	Pass
5710	65	64QAM	-18.00	-15.00	-11.00	-4.00	Pass
5715	3.25	BPSK	-17.25	-14.25	-11.00	-3.25	Pass
5715	32.5	64QAM	-17.17	-14.17	-11.00	-3.17	Pass

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

Reference numbers of test equipment used

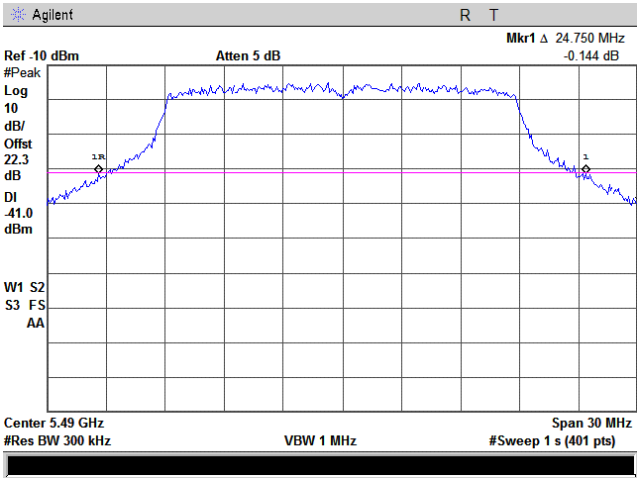
HL 2883	HL 2909	HL 3179					

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

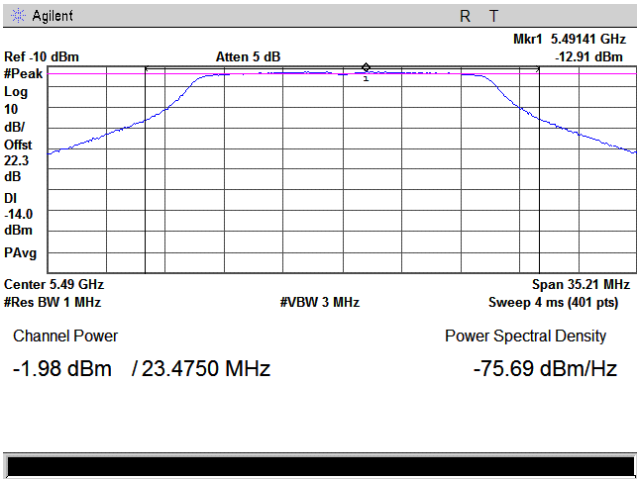
Plot 7.1.73 The 26 dB emission bandwidth

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



Plot 7.1.74 Peak output power

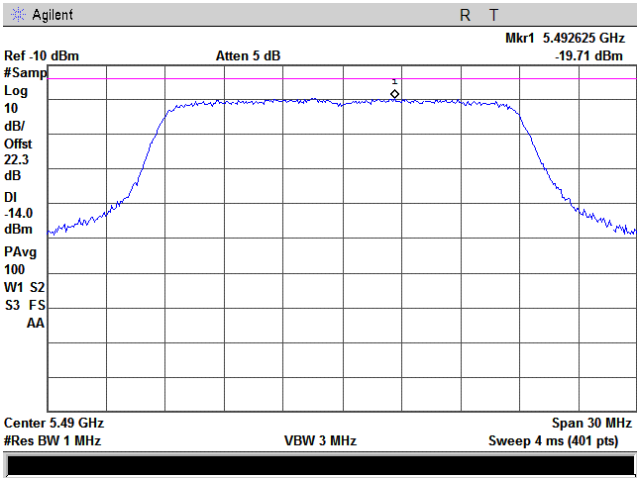
Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

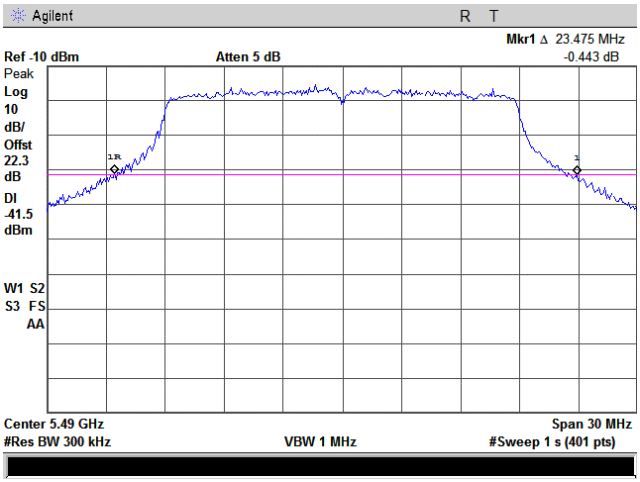
Plot 7.1.75 Peak spectral power density

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



Plot 7.1.76 The 26 dB emission bandwidth

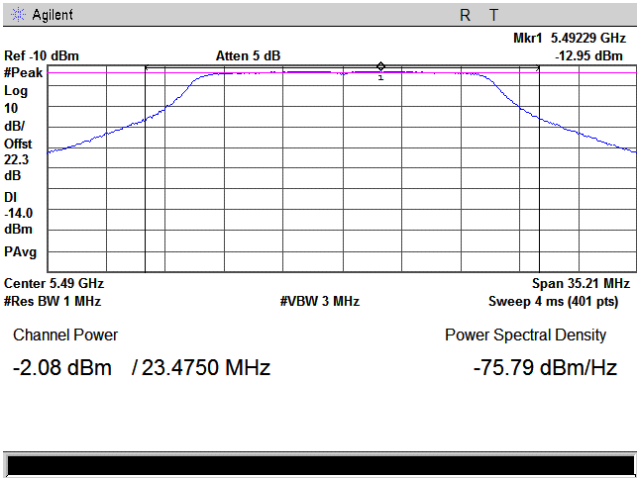
Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

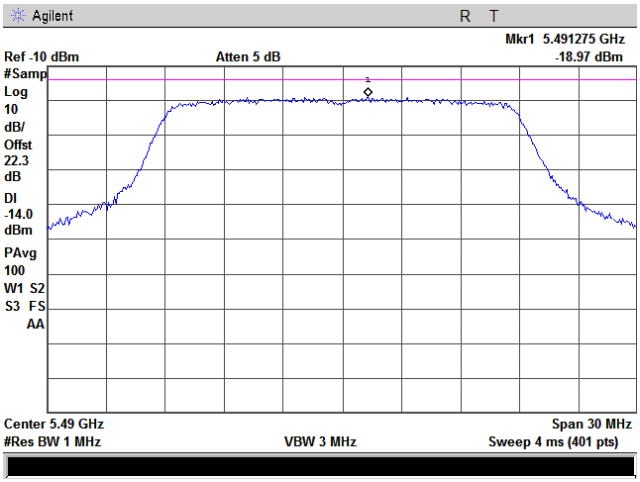
Plot 7.1.77 Peak output power

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



Plot 7.1.78 Peak spectral power density

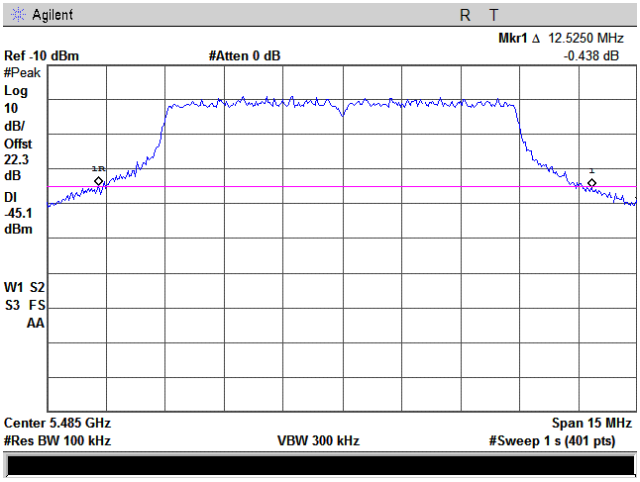
Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

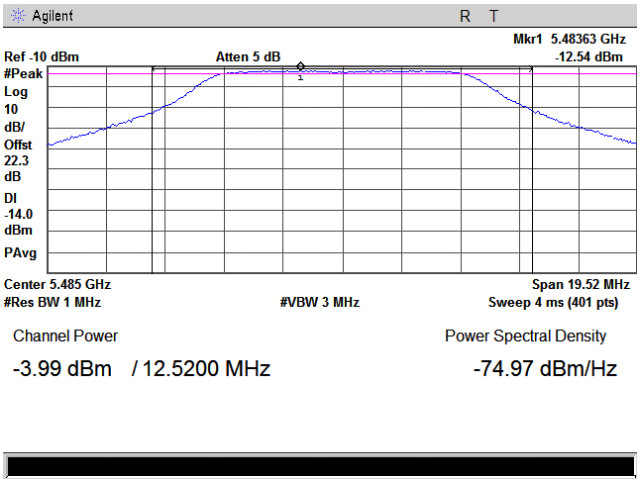
Plot 7.1.79 The 26 dB emission bandwidth

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



Plot 7.1.80 Peak output power

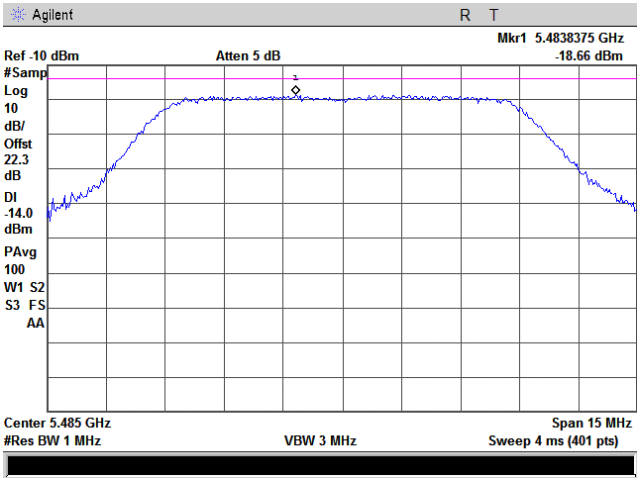
Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

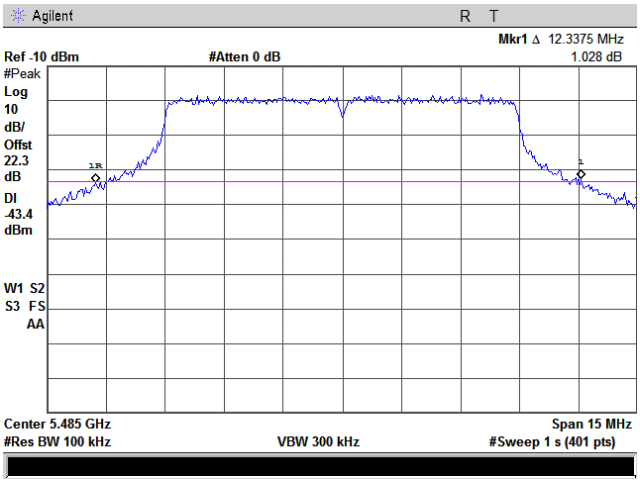
Plot 7.1.81 Peak spectral power density

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



Plot 7.1.82 The 26 dB emission bandwidth

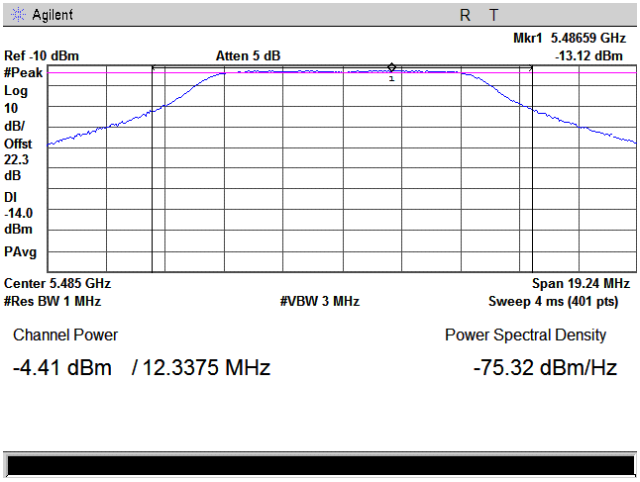
Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

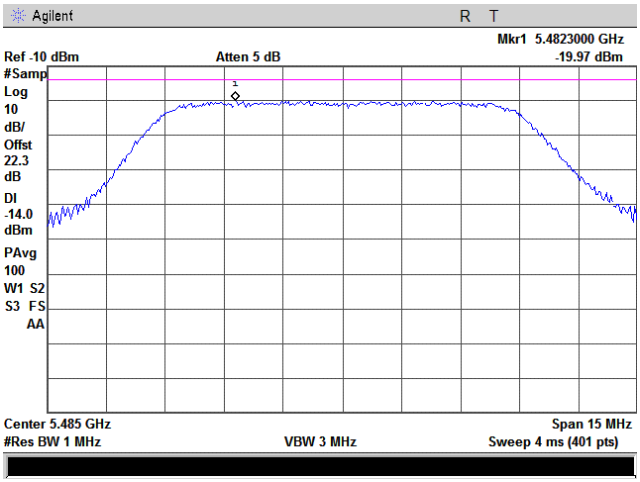
Plot 7.1.83 Peak output power

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



Plot 7.1.84 Peak spectral power density

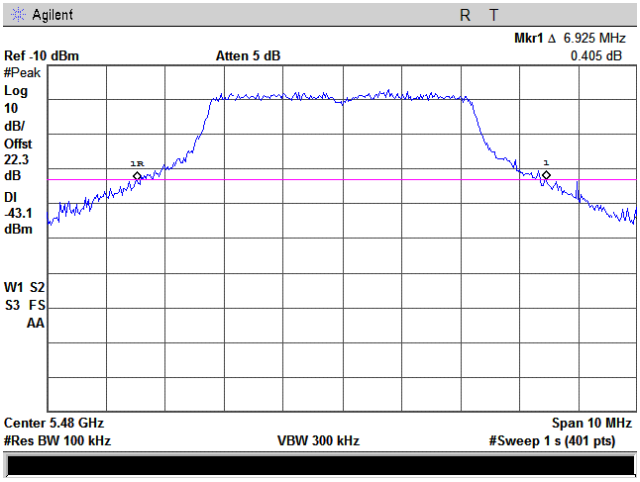
Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

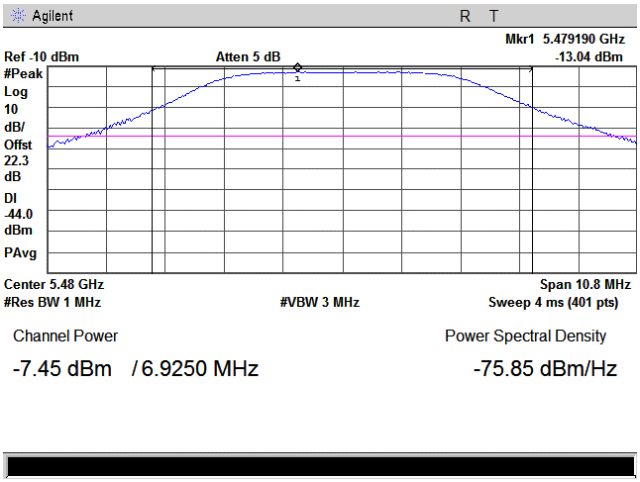
Plot 7.1.85 The 26 dB emission bandwidth

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



Plot 7.1.86 Peak output power

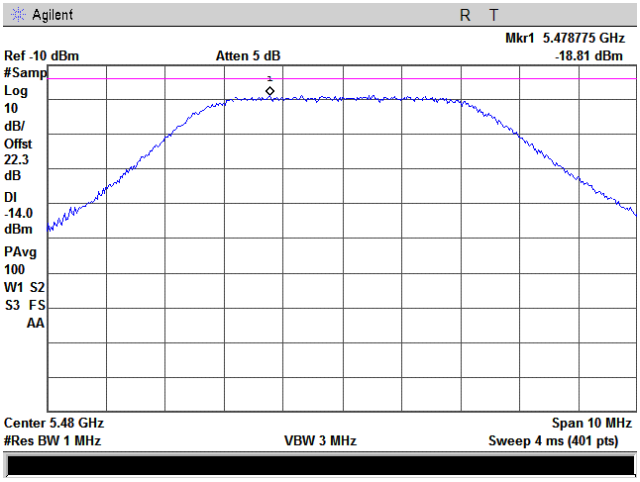
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

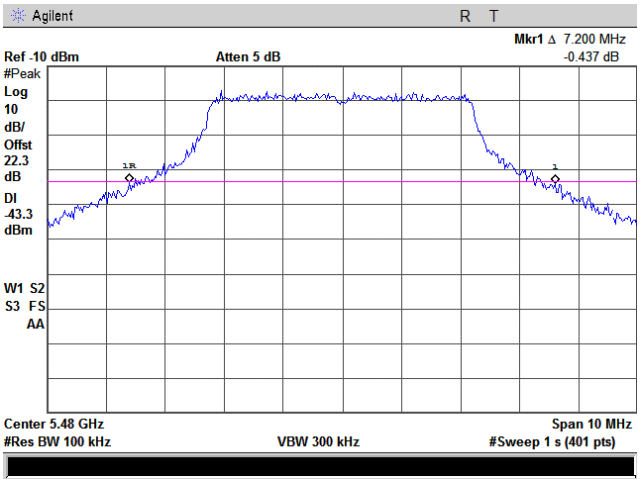
Plot 7.1.87 Peak spectral power density

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



Plot 7.1.88 The 26 dB emission bandwidth

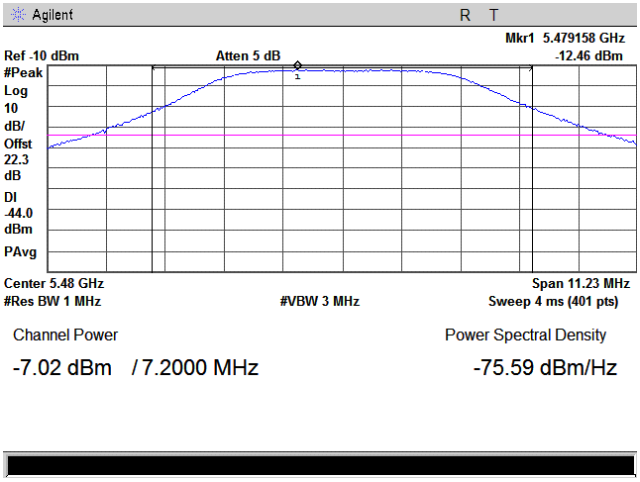
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

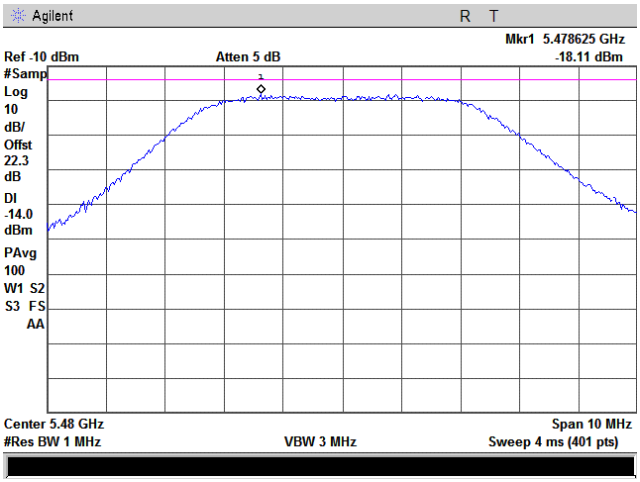
Plot 7.1.89 Peak output power

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



Plot 7.1.90 Peak spectral power density

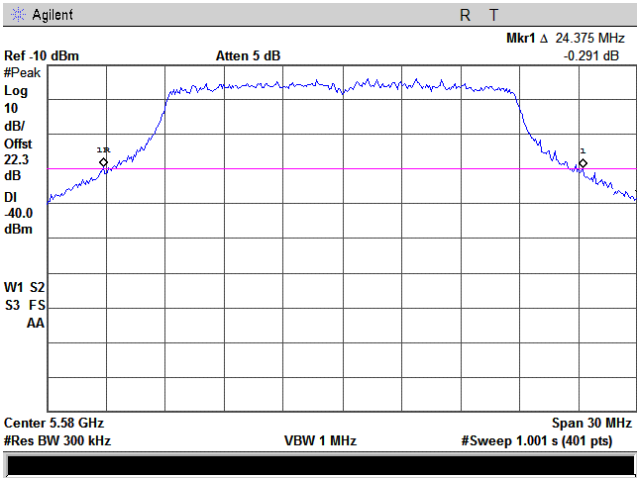
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

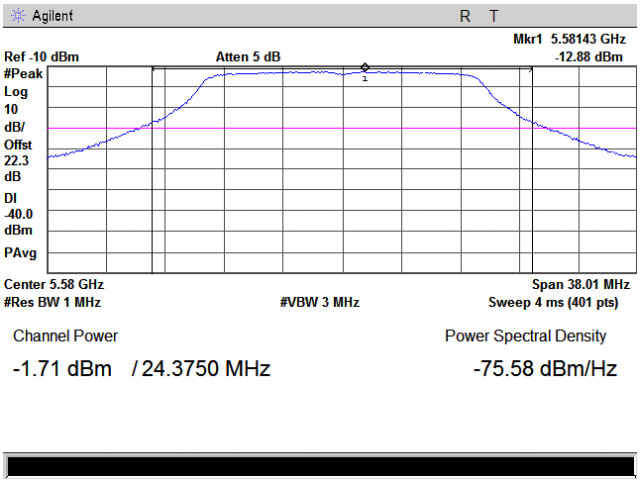
Plot 7.1.91 The 26 dB emission bandwidth

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



Plot 7.1.92 Peak output power

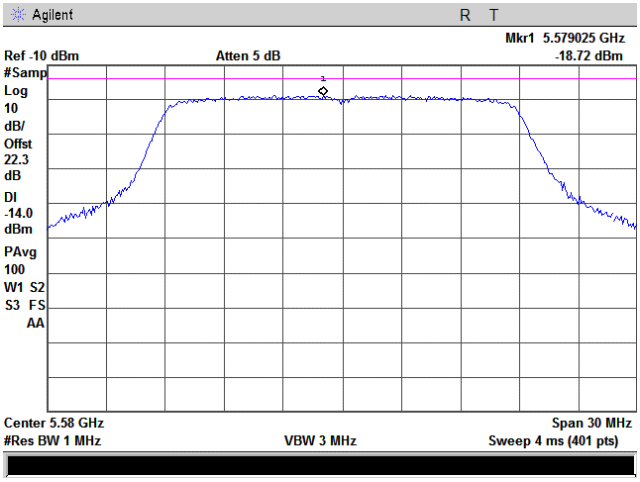
Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

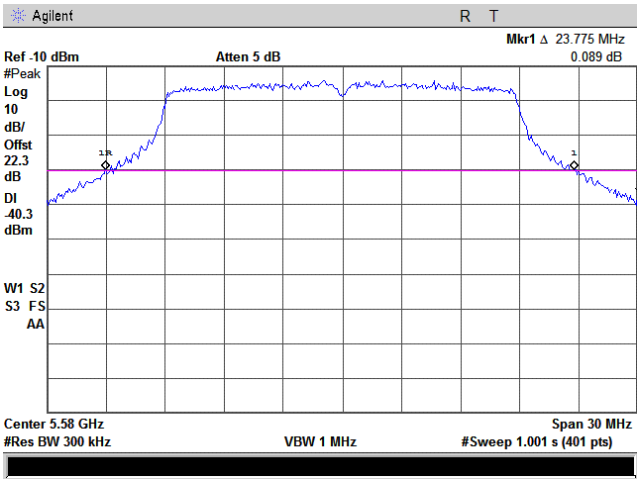
Plot 7.1.93 Peak spectral power density

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



Plot 7.1.94 The 26 dB emission bandwidth

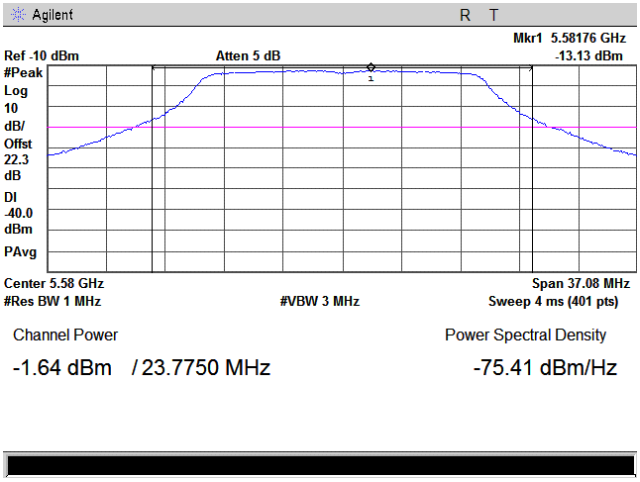
Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

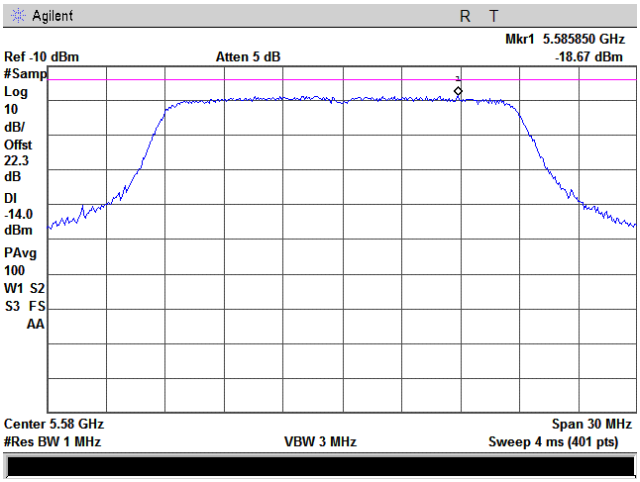
Plot 7.1.95 Peak output power

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



Plot 7.1.96 Peak spectral power density

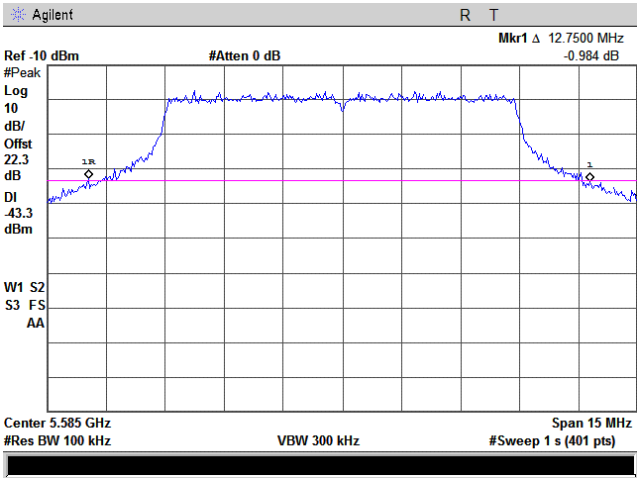
Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

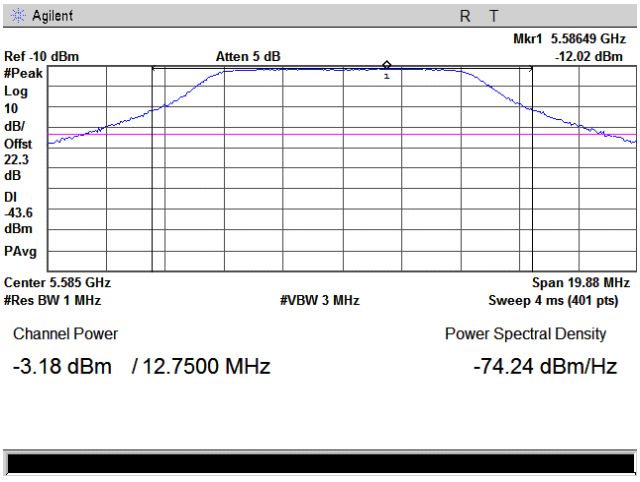
Plot 7.1.97 The 26 dB emission bandwidth

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



Plot 7.1.98 Peak output power

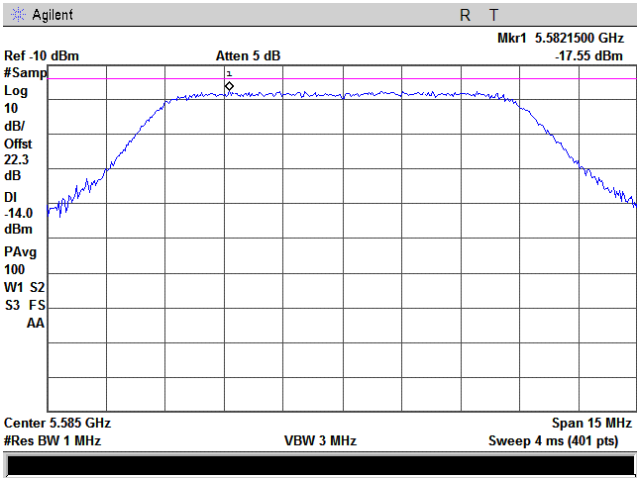
Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

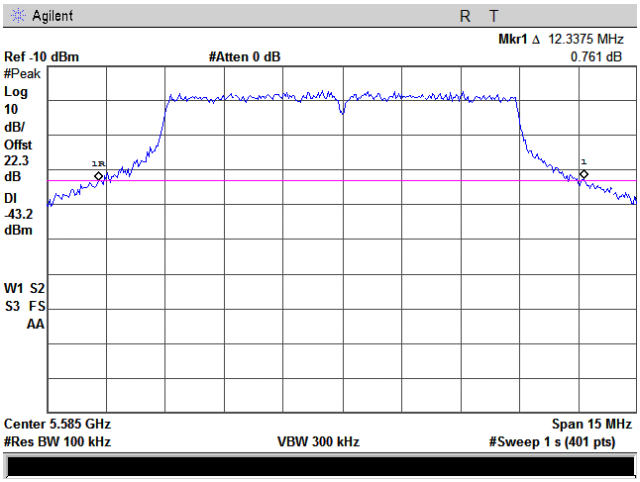
Plot 7.1.99 Peak spectral power density

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



Plot 7.1.100 The 26 dB emission bandwidth

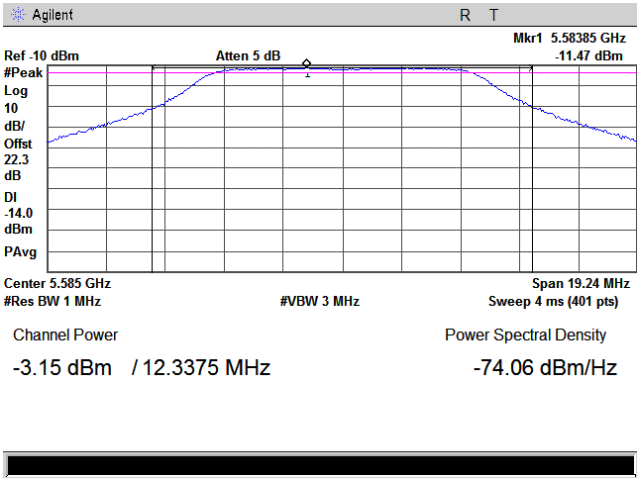
Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

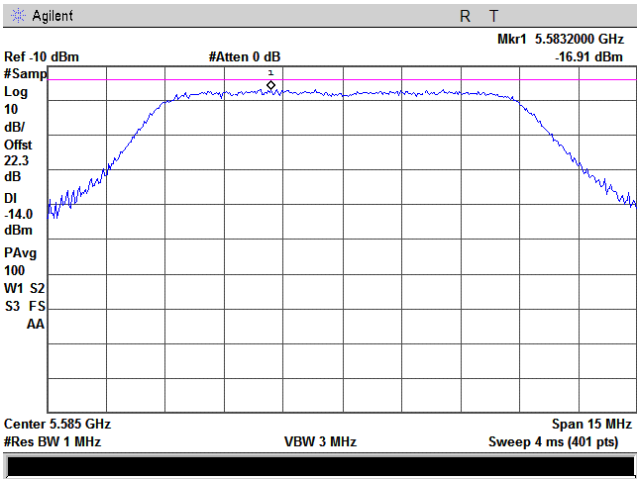
Plot 7.1.101 Peak output power

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



Plot 7.1.102 Peak spectral power density

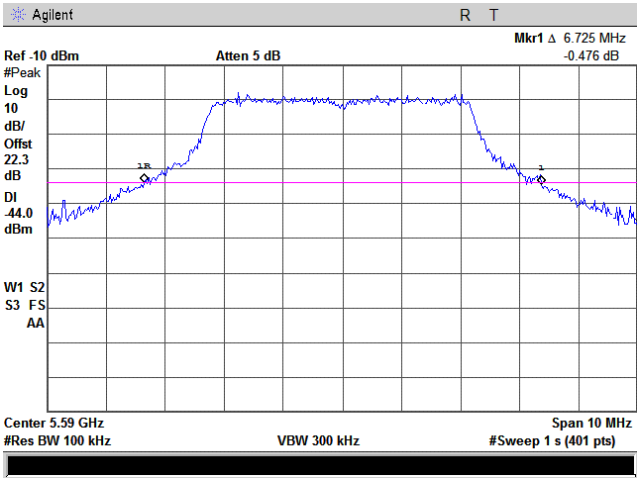
Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

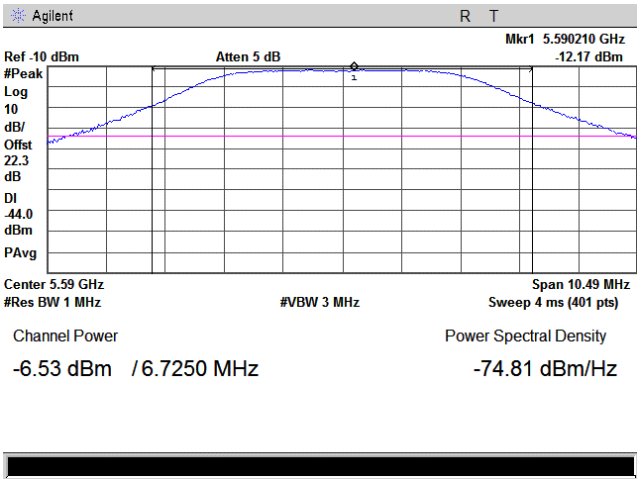
Plot 7.1.103 The 26 dB emission bandwidth

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



Plot 7.1.104 Peak output power

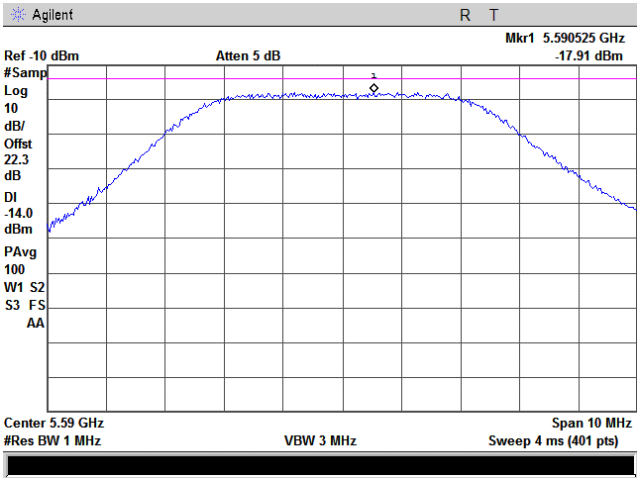
Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

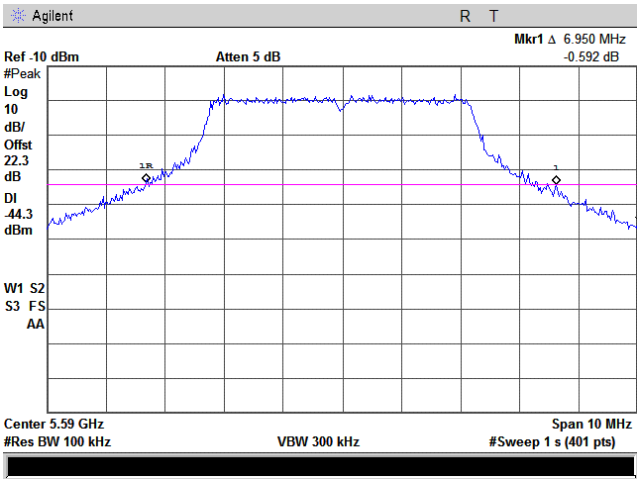
Plot 7.1.105 Peak spectral power density

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



Plot 7.1.106 The 26 dB emission bandwidth

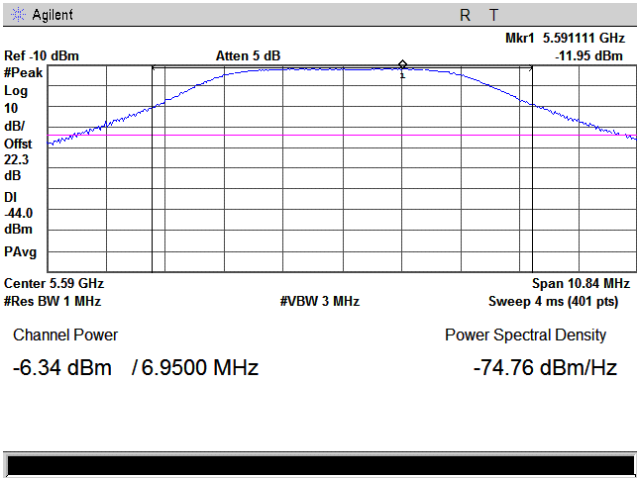
Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

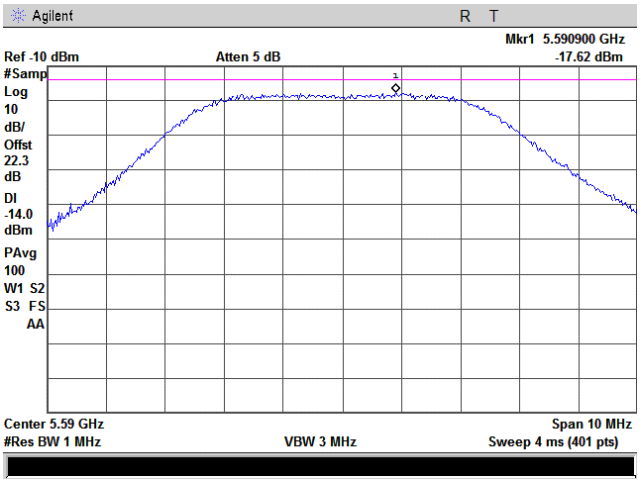
Plot 7.1.107 Peak output power

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



Plot 7.1.108 Peak spectral power density

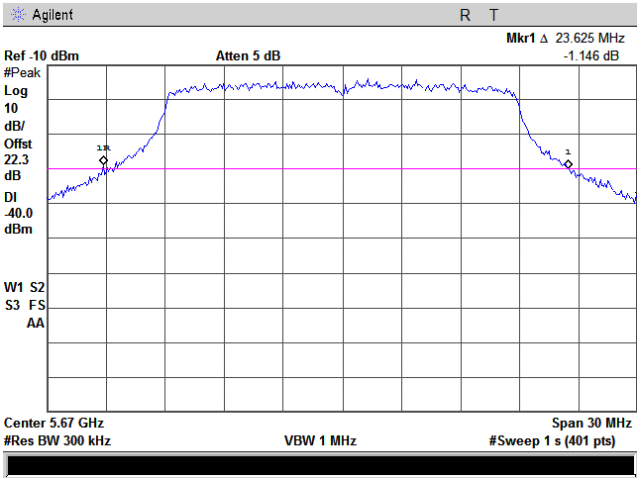
Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

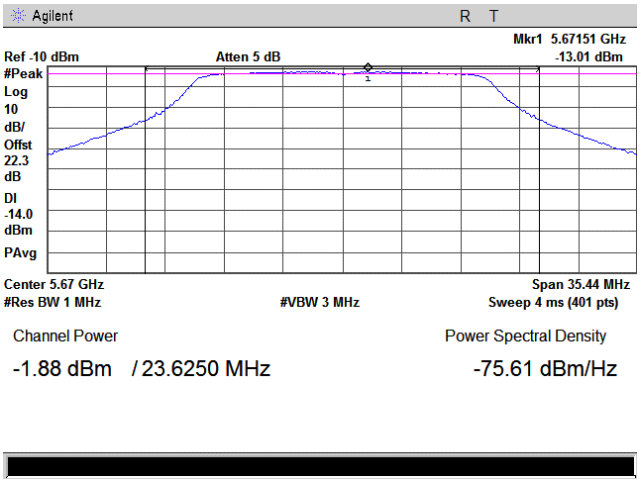
Plot 7.1.109 The 26 dB emission bandwidth

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



Plot 7.1.110 Peak output power

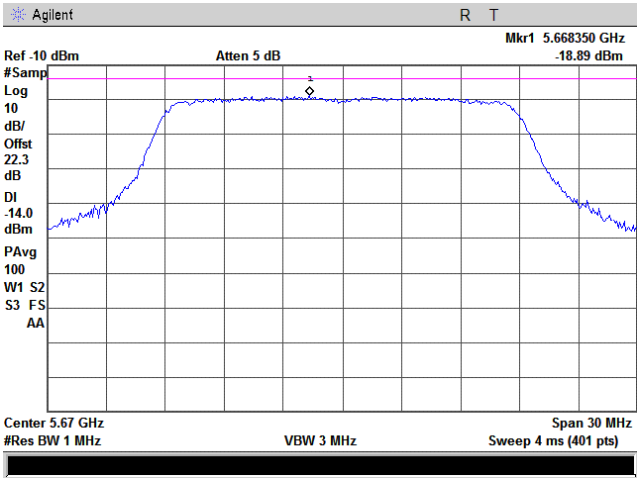
Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

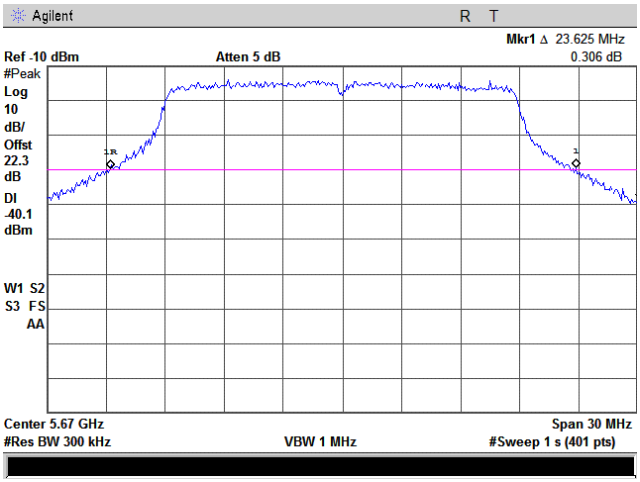
Plot 7.1.111 Peak spectral power density

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



Plot 7.1.112 The 26 dB emission bandwidth

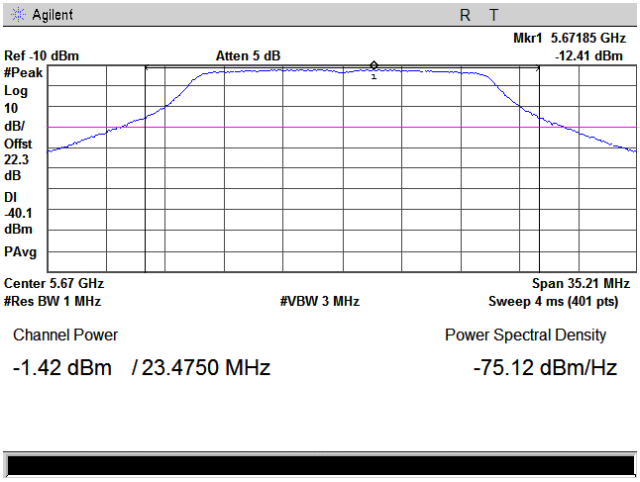
Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

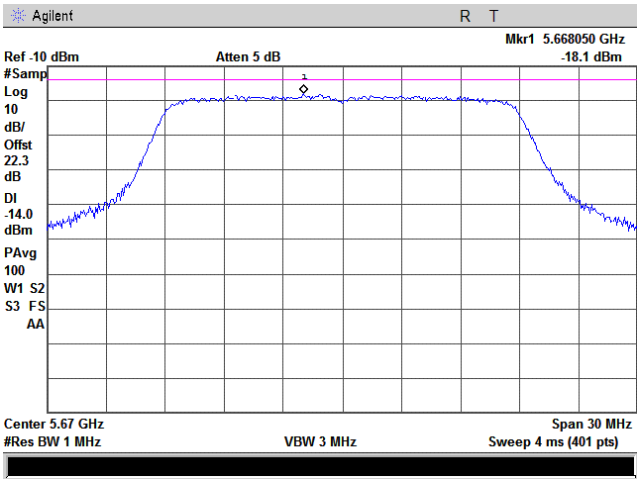
Plot 7.1.113 Peak output power

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



Plot 7.1.114 Peak spectral power density

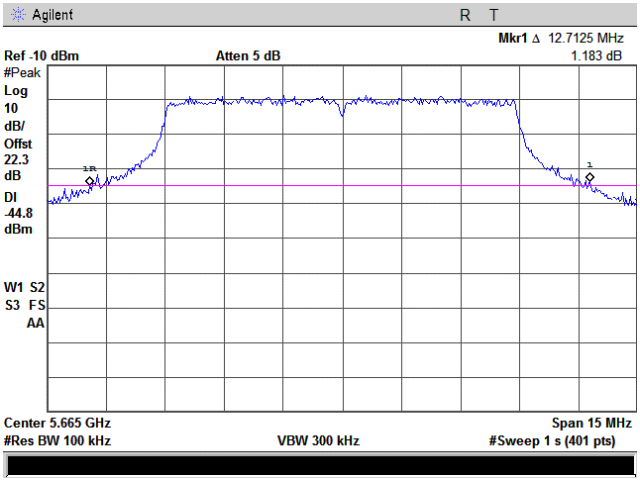
Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

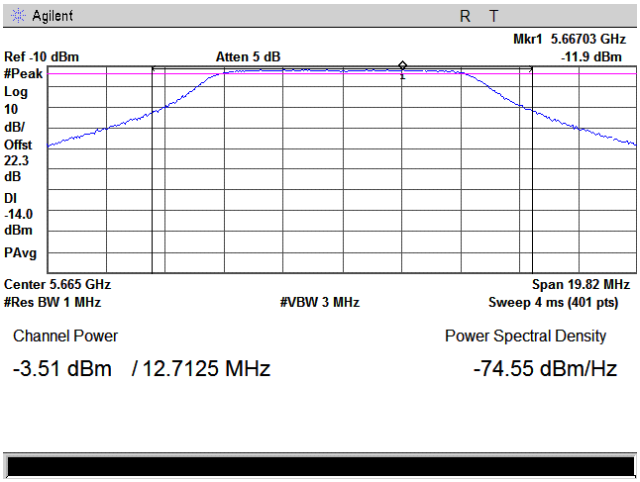
Plot 7.1.115 The 26 dB emission bandwidth

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



Plot 7.1.116 Peak output power

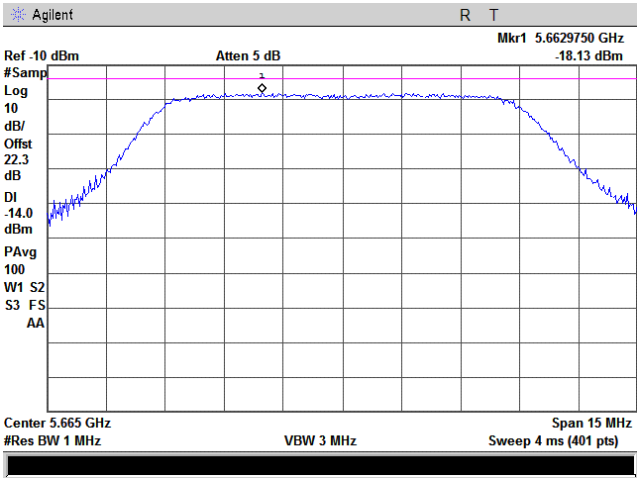
Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

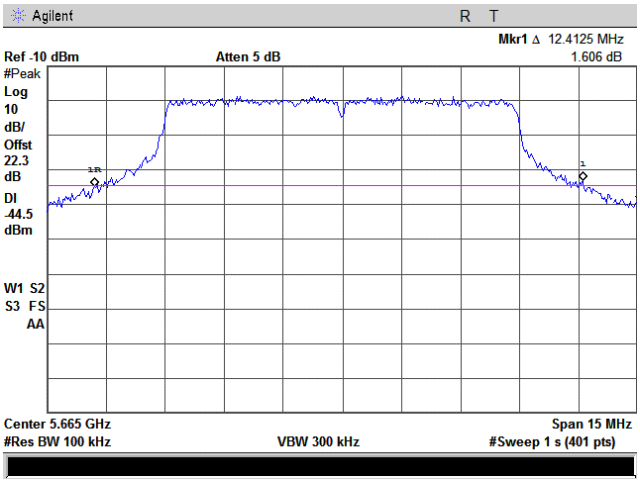
Plot 7.1.117 Peak spectral power density

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



Plot 7.1.118 The 26 dB emission bandwidth

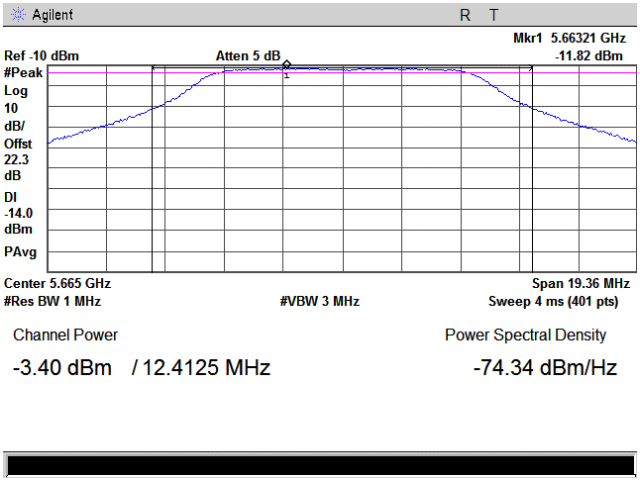
Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

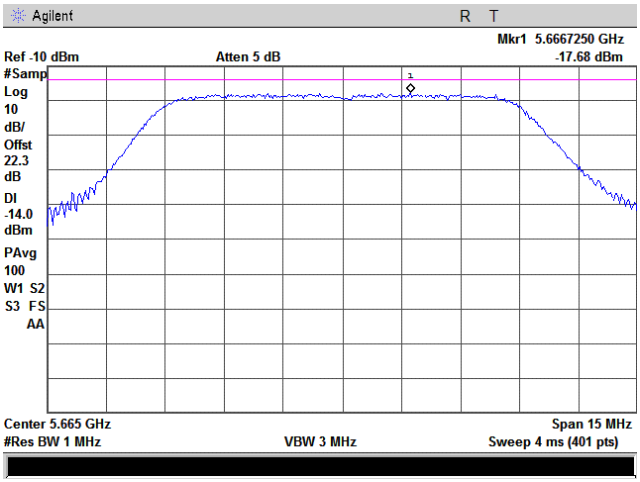
Plot 7.1.119 Peak output power

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



Plot 7.1.120 Peak spectral power density

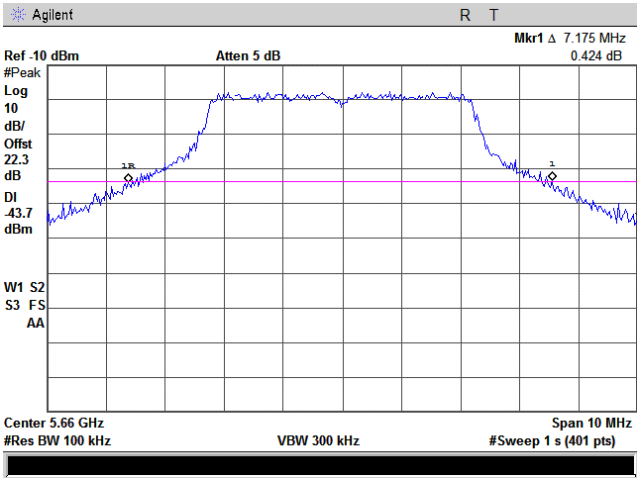
Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

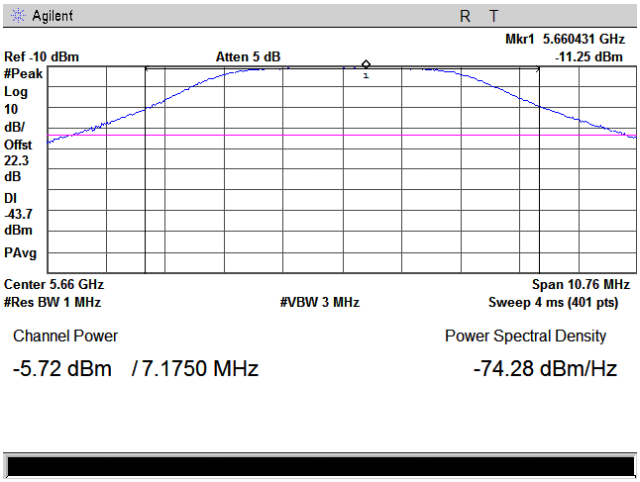
Plot 7.1.121 The 26 dB emission bandwidth

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



Plot 7.1.122 Peak output power

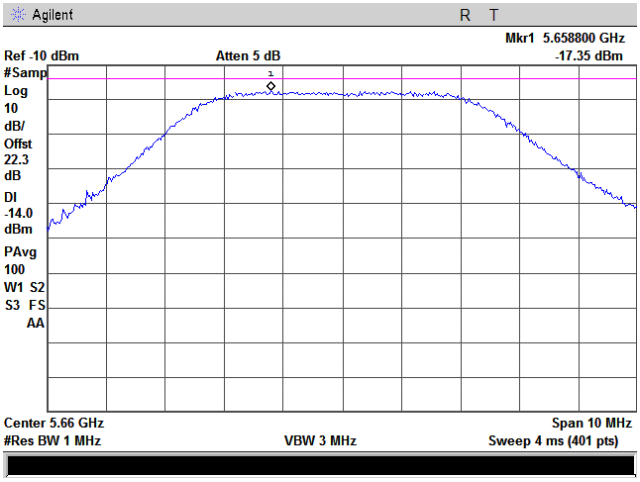
Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

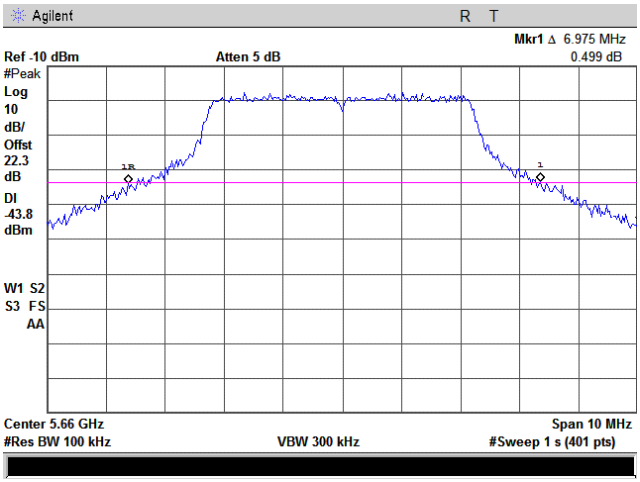
Plot 7.1.123 Peak spectral power density

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



Plot 7.1.124 The 26 dB emission bandwidth

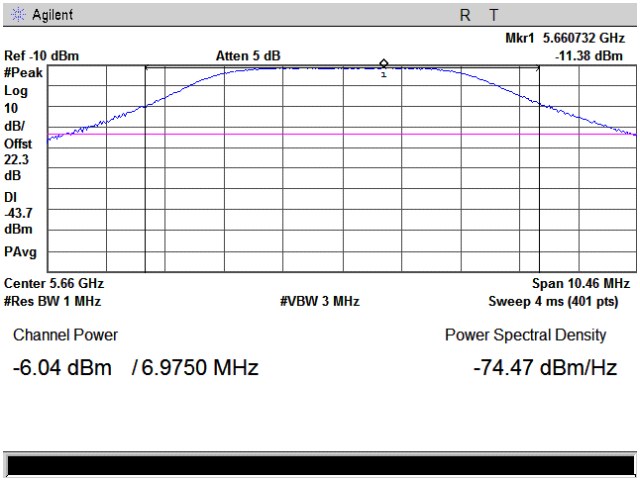
Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

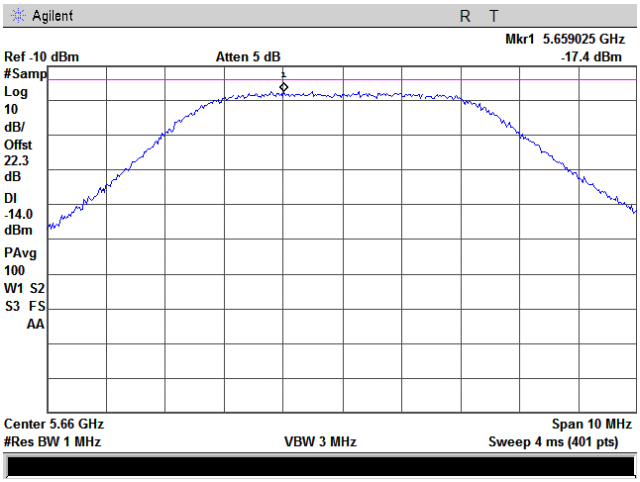
Plot 7.1.125 Peak output power

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



Plot 7.1.126 Peak spectral power density

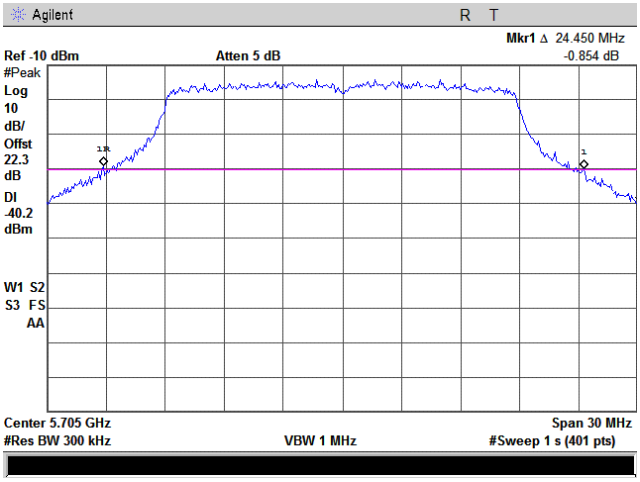
Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

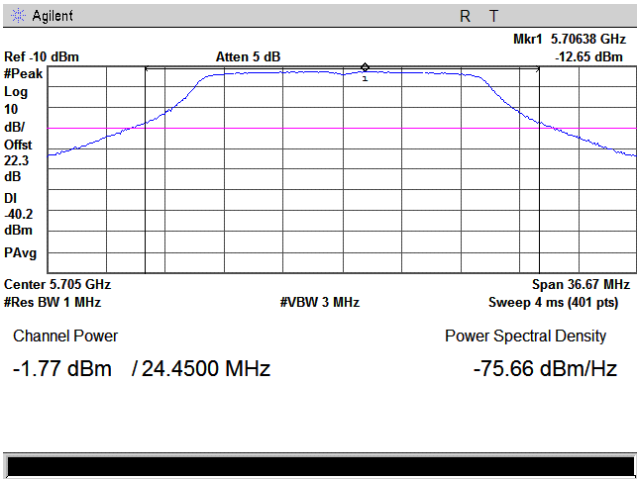
Plot 7.1.127 The 26 dB emission bandwidth

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



Plot 7.1.128 Peak output power

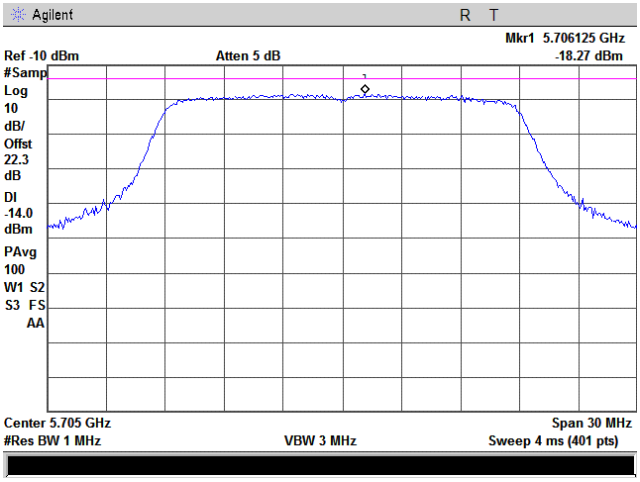
Frequency:	5705 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

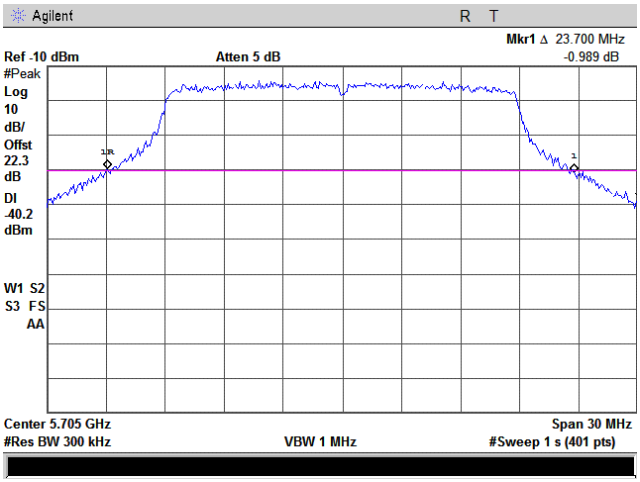
Plot 7.1.129 Peak spectral power density

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



Plot 7.1.130 The 26 dB emission bandwidth

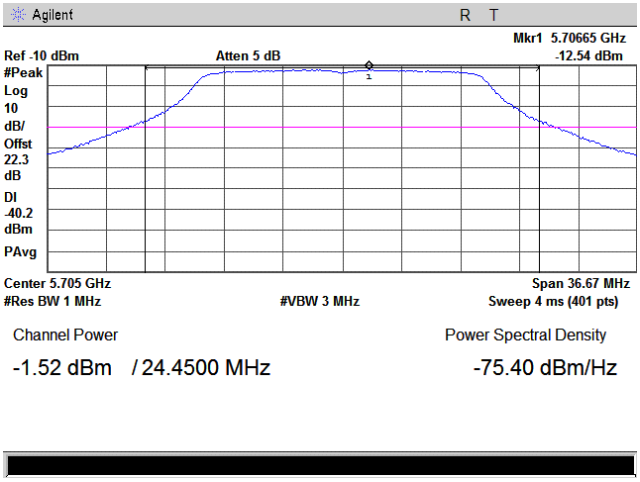
Frequency:	5705 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

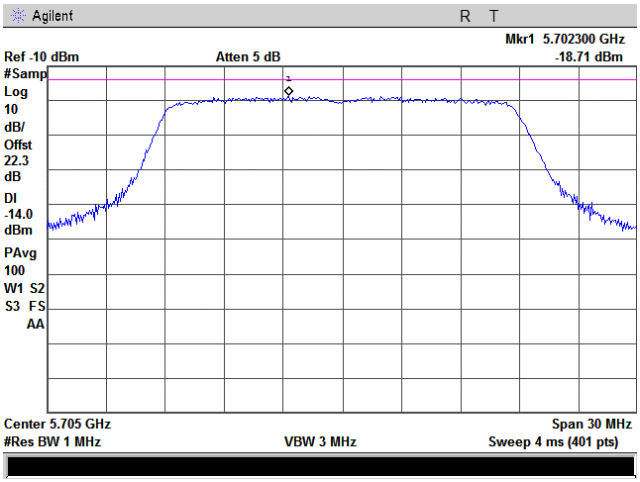
Plot 7.1.131 Peak output power

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



Plot 7.1.132 Peak spectral power density

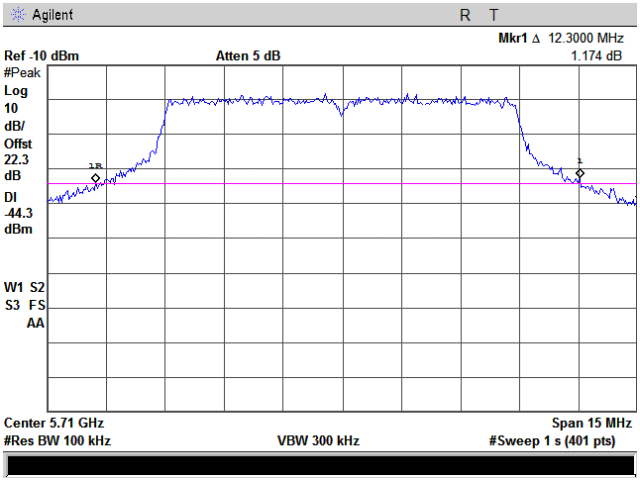
Frequency:	5705 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 130 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

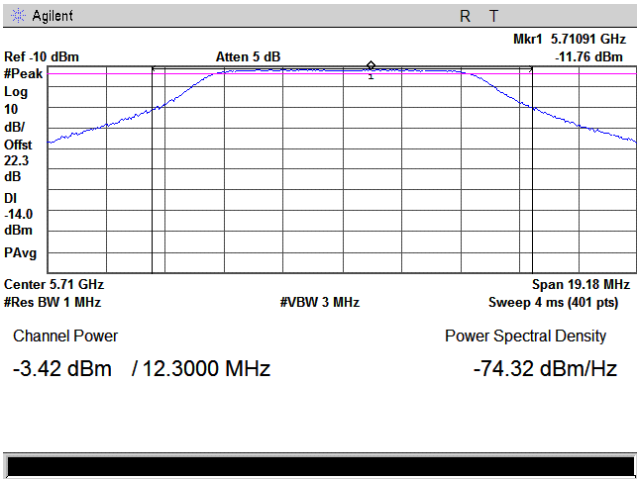
Plot 7.1.133 The 26 dB emission bandwidth

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



Plot 7.1.134 Peak output power

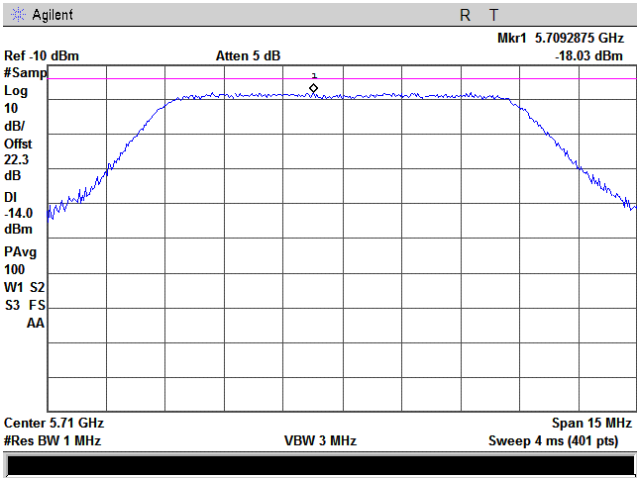
Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

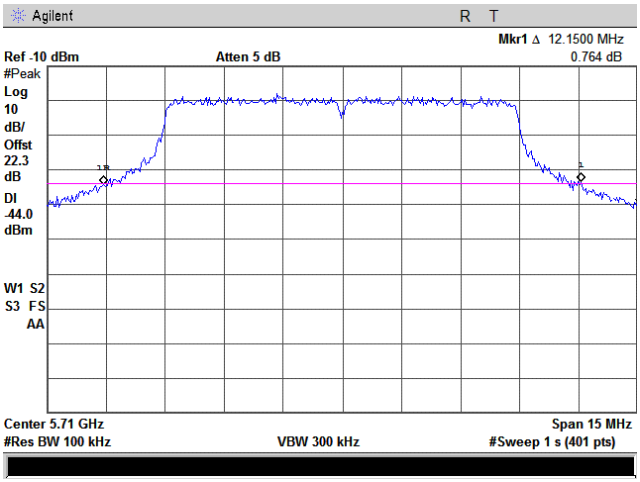
Plot 7.1.135 Peak spectral power density

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



Plot 7.1.136 The 26 dB emission bandwidth

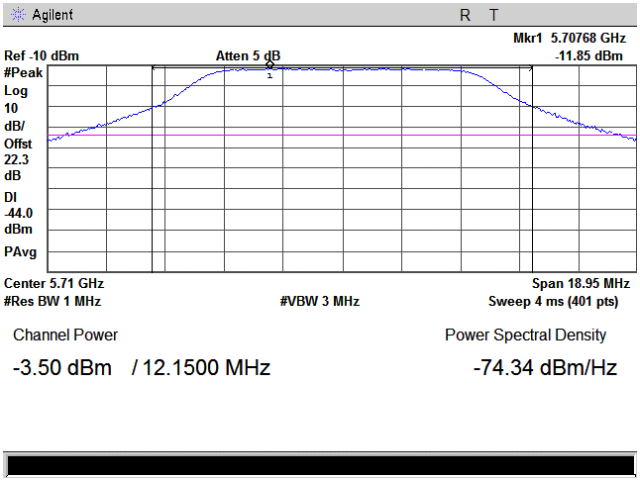
Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

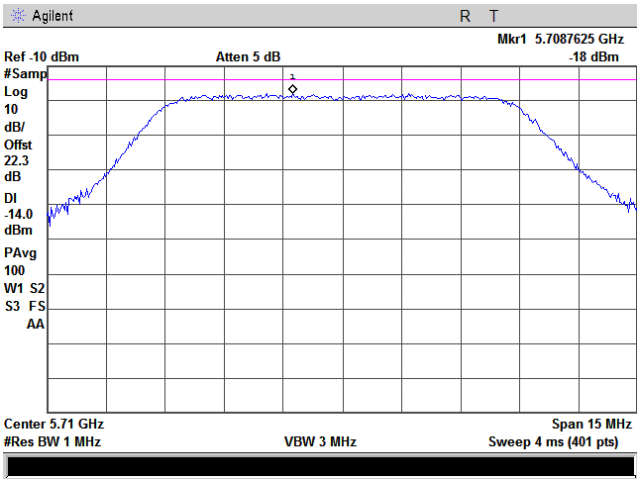
Plot 7.1.137 Peak output power

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



Plot 7.1.138 Peak spectral power density

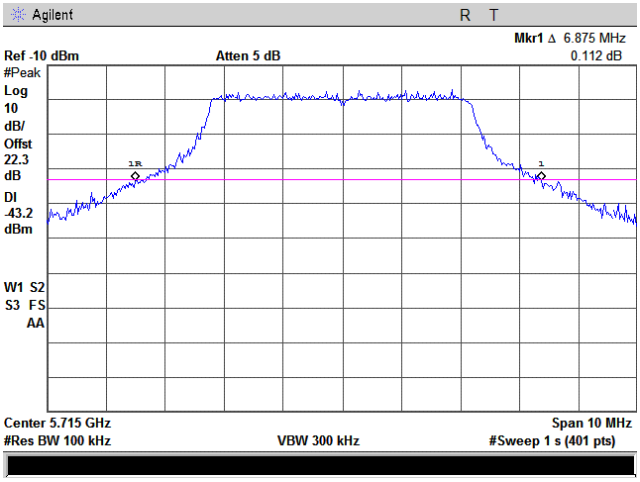
Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 65 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

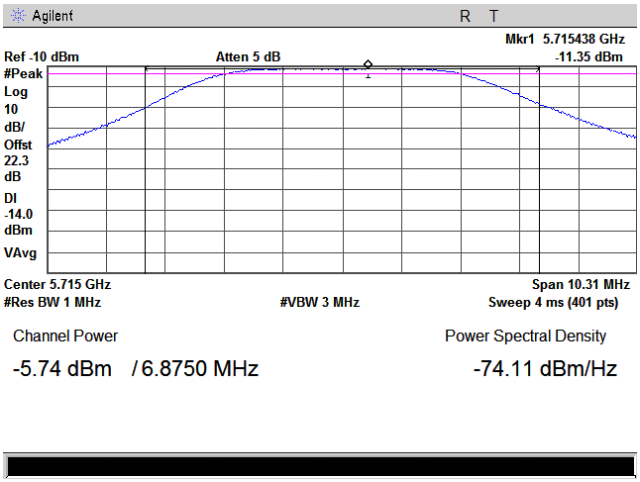
Plot 7.1.139 The 26 dB emission bandwidth

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



Plot 7.1.140 Peak output power

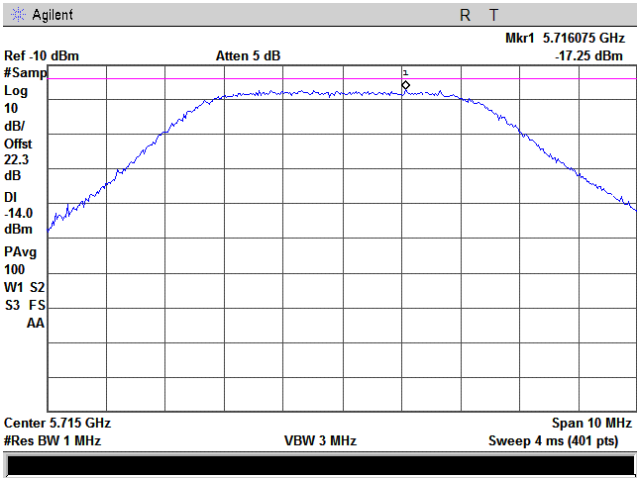
Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

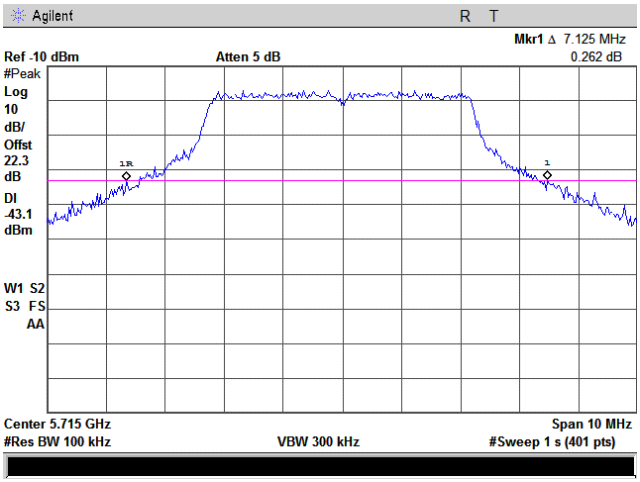
Plot 7.1.141 Peak spectral power density

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



Plot 7.1.142 The 26 dB emission bandwidth

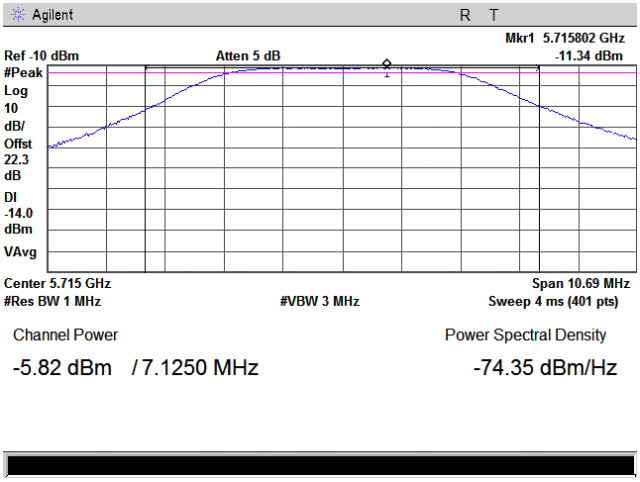
Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



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:	11/25/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

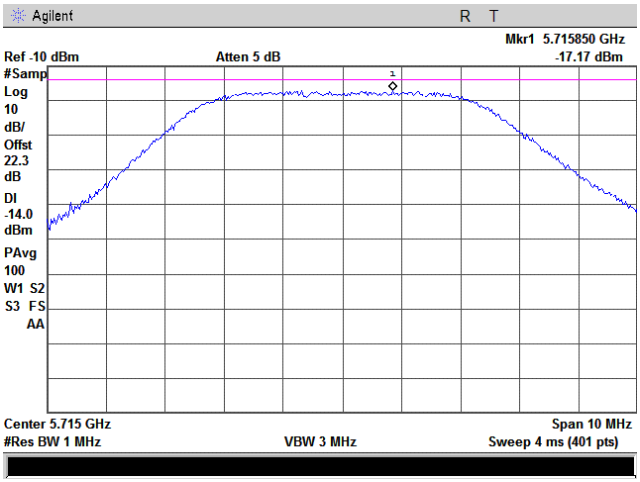
Plot 7.1.143 Peak output power

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



Plot 7.1.144 Peak spectral power density

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



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:	11/25/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**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.

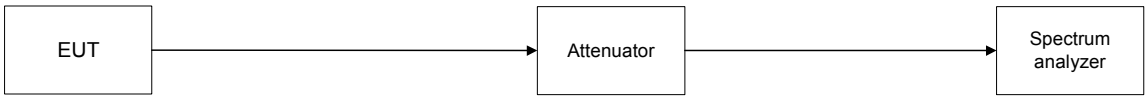
7.2.2.2 The EUT was adjusted to produce maximum available to end user RF output power.

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, Table 7.2.3 and shown in the associated plots.

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

Table 7.2.2 Peak excursion test results

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz
DETECTOR USED: 1-st trace: Peak, Max Hold
2-nd trace: Peak, 100 Power Averaging
TRANSMITTER OUTPUT POWER 15 dBm at 20 MHz BW;
12 dBm at 10 MHz BW;
9.5 dBm at 5 MHz BW
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							
5490	13	-1.840	-6.816	4.976	13	-8.024	Pass
5490	130	-1.462	-7.362	5.900	13	-7.100	Pass
5485	6.5	-2.816	-8.022	5.206	13	-7.794	Pass
5485	65	-2.893	-7.455	4.562	13	-8.438	Pass
5480	3.25	-2.142	-7.300	5.158	13	-7.842	Pass
5480	32.5	-1.829	-7.017	5.188	13	-7.812	Pass
First mid channel							
5580	13	-2.774	-7.528	4.754	13	-8.246	Pass
5580	130	-1.931	-7.461	5.530	13	-7.470	Pass
5585	6.5	-3.700	-9.146	5.446	13	-7.554	Pass
5585	65	-4.022	-9.308	5.286	13	-7.714	Pass
5590	3.25	-3.694	-8.885	5.191	13	-7.809	Pass
5590	32.5	-2.822	-7.975	5.153	13	-7.847	Pass
Second mid channel							
5670	13	-3.218	-8.326	5.108	13	-7.892	Pass
5670	130	-3.330	-9.210	5.880	13	-7.120	Pass
5665	6.5	-4.328	-9.584	5.256	13	-7.744	Pass
5665	65	-4.425	-10.12	5.695	13	-7.305	Pass
5660	3.25	-4.599	-10.060	5.461	13	-7.539	Pass
5660	32.5	-4.363	-9.761	5.398	13	-7.602	Pass
High channel							
5705	13	-4.448	-9.392	4.944	13	-8.056	Pass
5705	130	-4.243	-9.862	5.619	13	-7.381	Pass
5710	6.5	-4.941	-10.390	5.449	13	-7.551	Pass
5710	65	-4.755	-9.778	5.023	13	-7.977	Pass
5715	3.25	-5.338	-10.910	5.572	13	-7.428	Pass
5715	32.5	-5.078	-10.810	5.732	13	-7.268	Pass

* - Margin = Peak excursion – specification limit.

Reference numbers of test equipment used

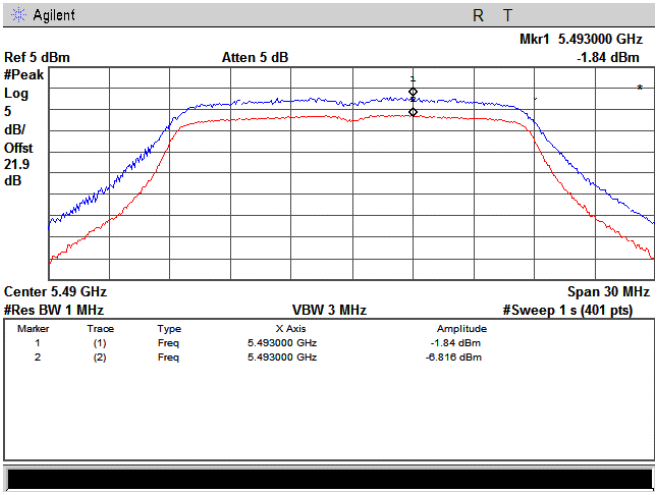
HL 2780	HL 2883	HL 3180					

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:	12/07/2008		
Temperature: 22ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 48%	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

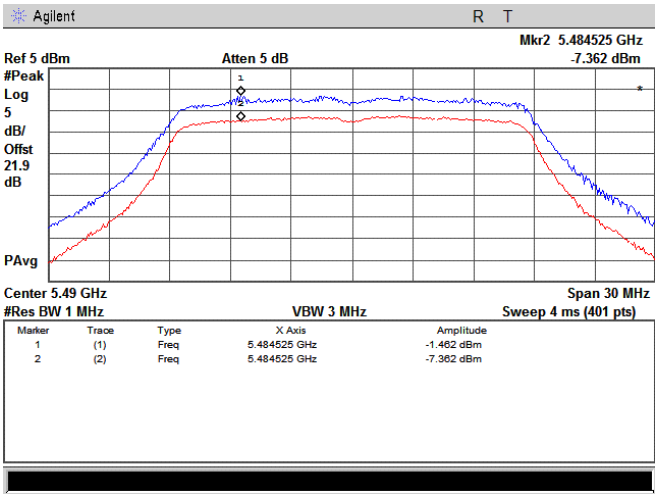
Plot.7.2.1 Peak excursion measurement

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



Plot.7.2.2 Peak excursion measurement

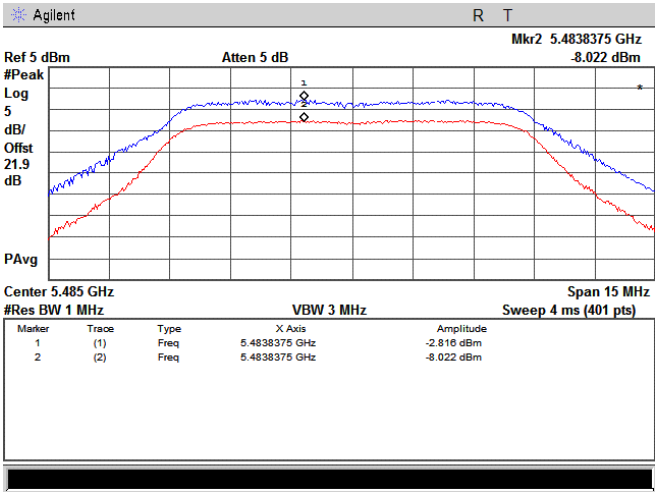
Frequency: 5490 MHz
Channel BW: 20 MHz
Modulation parameters: QPSK; 130 MBps



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:	12/07/2008		
Temperature: 22ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 48%	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

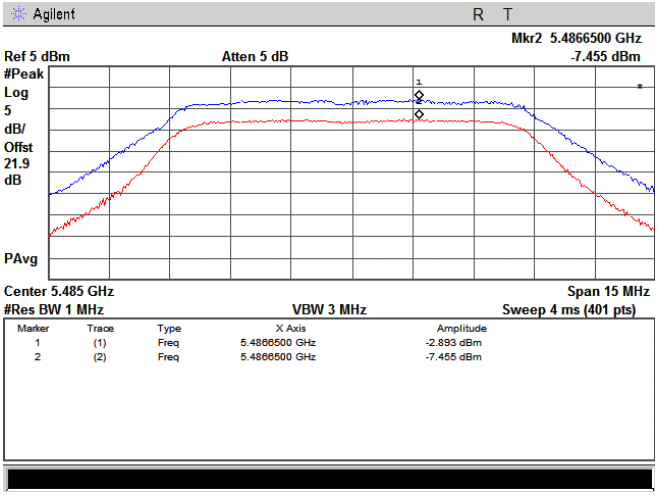
Plot 7.2.3 Peak excursion measurement

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



Plot 7.2.4 Peak excursion measurement

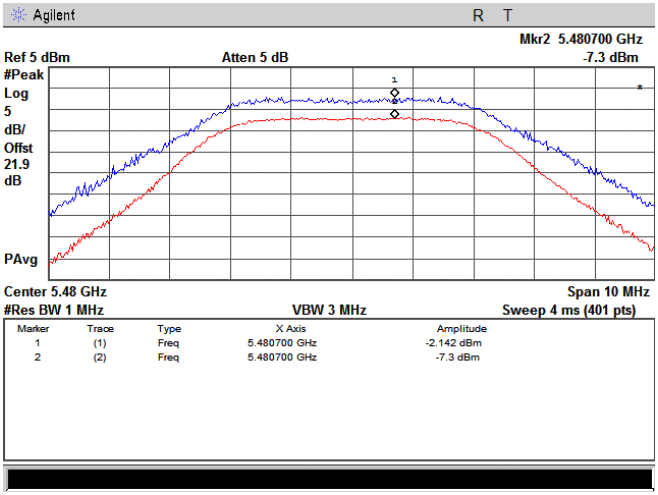
Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 65 MBps



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:	12/07/2008		
Temperature: 22ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 48%	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

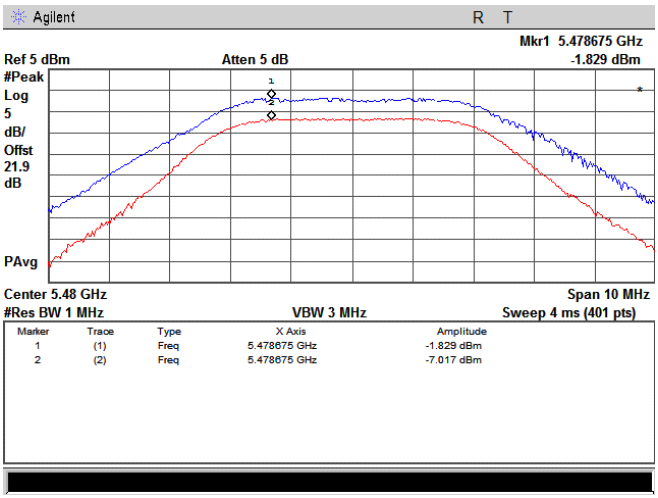
Plot 7.2.5 Peak excursion measurement

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



Plot 7.2.6 Peak excursion measurement

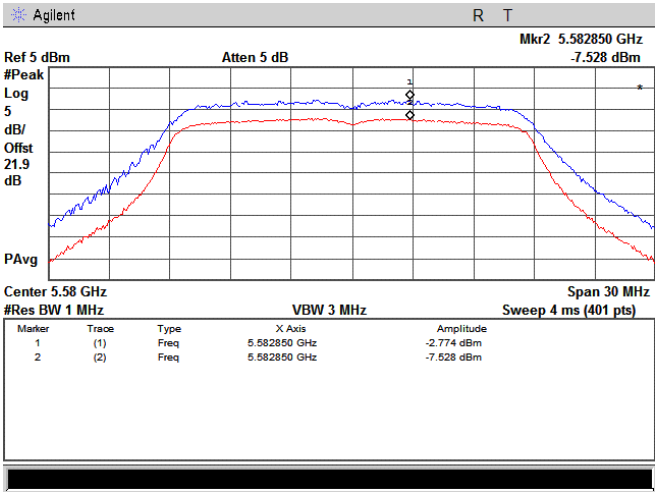
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



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:	12/07/2008		
Temperature: 22ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 48%	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

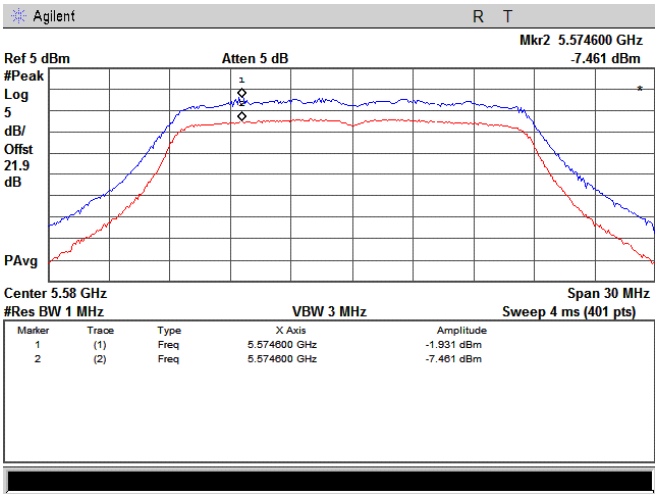
Plot.7.2.7 Peak excursion measurement

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



Plot.7.2.8 Peak excursion measurement

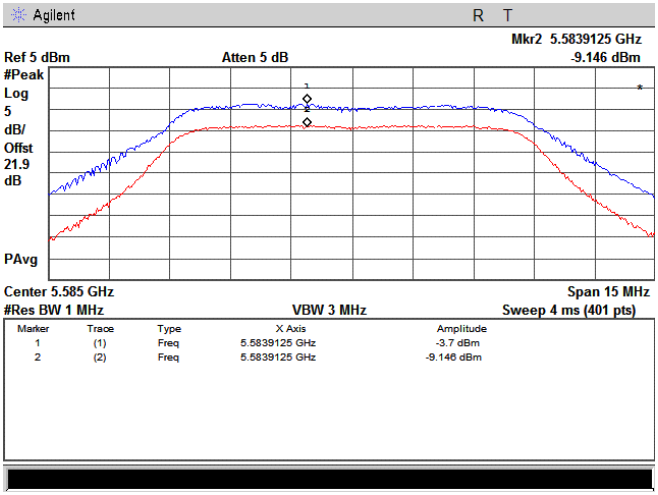
Frequency: 5580 MHz
Channel BW: 20 MHz
Modulation parameters: QPSK; 130 MBps



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:	12/07/2008		
Temperature: 22ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 48%	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

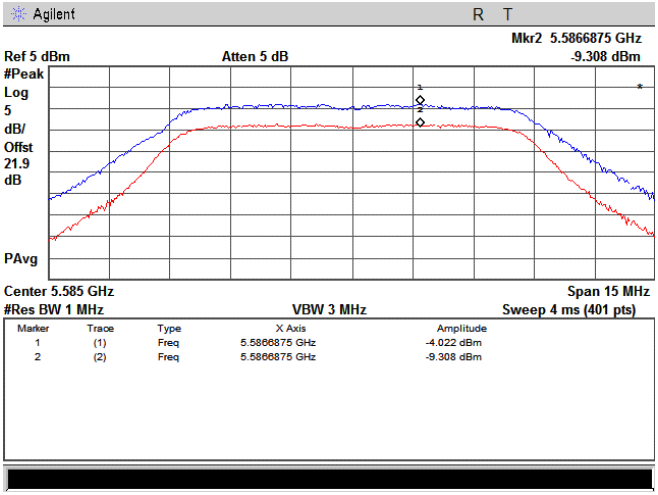
Plot 7.2.9 Peak excursion measurement

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



Plot 7.2.10 Peak excursion measurement

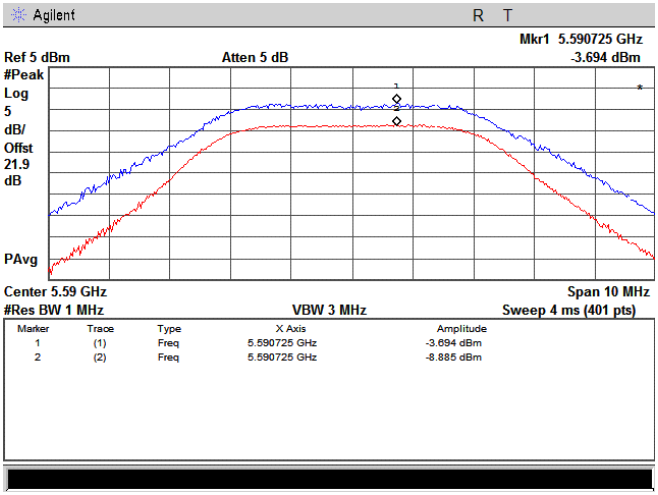
Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 65 MBps



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:	12/07/2008		
Temperature: 22ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 48%	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

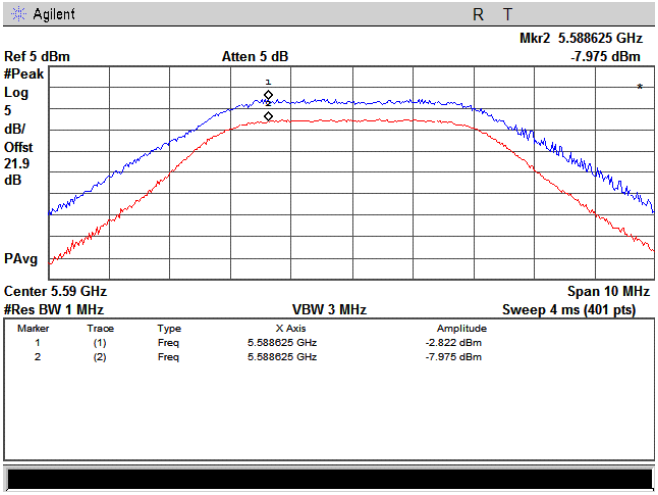
Plot 7.2.11 Peak excursion measurement

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



Plot 7.2.12 Peak excursion measurement

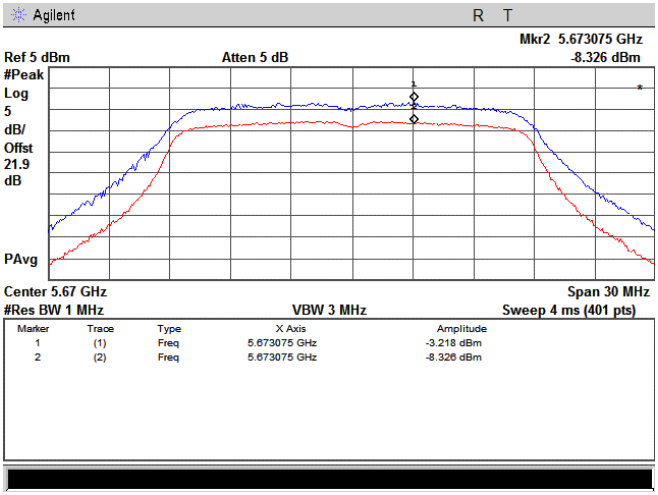
Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



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:	12/07/2008		
Temperature: 22ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 48%	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

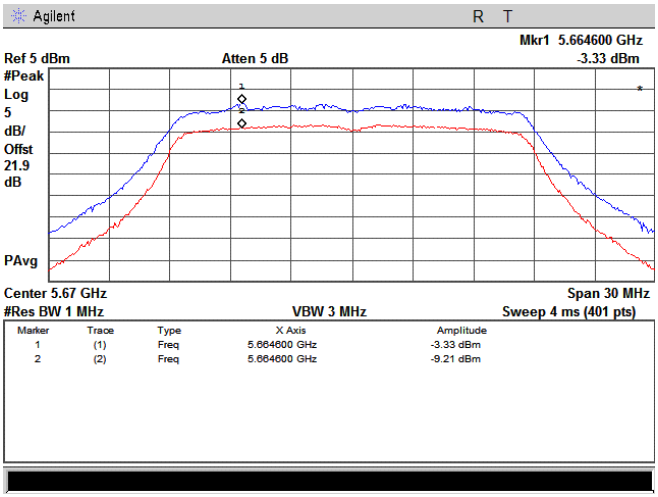
Plot.7.2.13 Peak excursion measurement

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



Plot.7.2.14 Peak excursion measurement

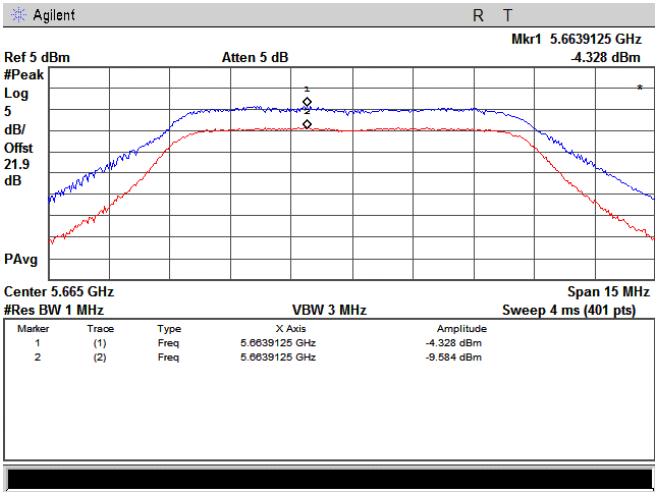
Frequency: 5670 MHz
Channel BW: 20 MHz
Modulation parameters: QPSK; 130 MBps



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:	12/07/2008		
Temperature: 22ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 48%	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

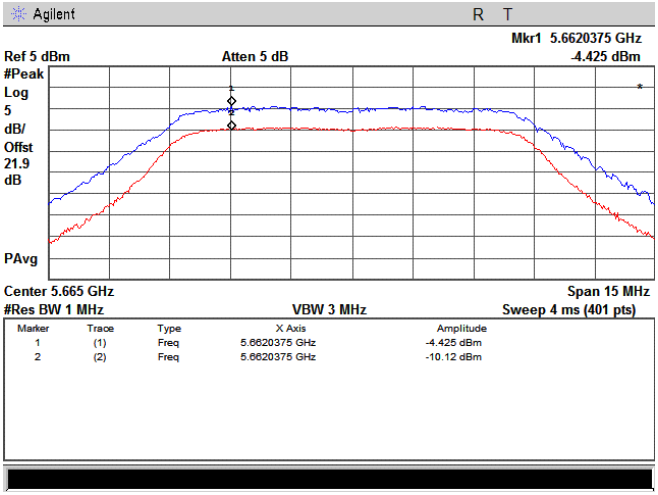
Plot 7.2.15 Peak excursion measurement

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



Plot 7.2.16 Peak excursion measurement

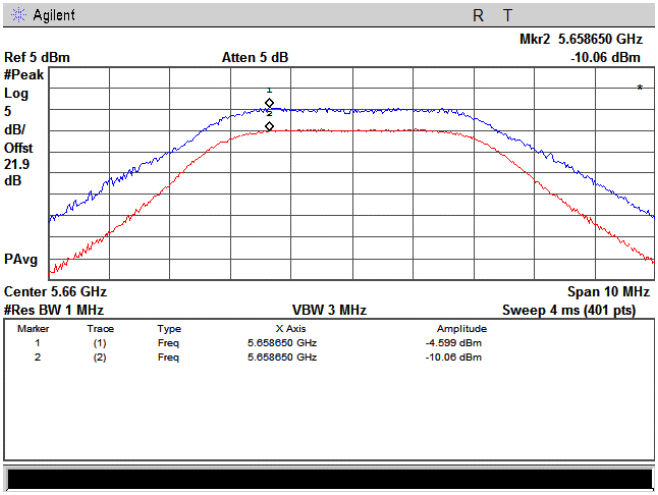
Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 65 MBps



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:	12/07/2008		
Temperature: 22ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 48%	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

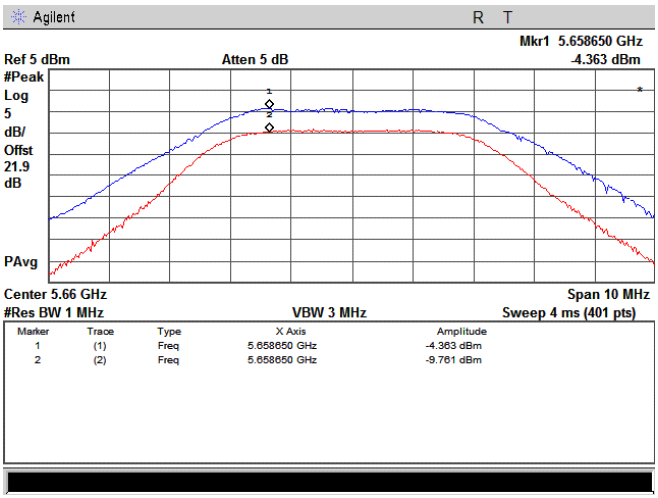
Plot 7.2.17 Peak excursion measurement

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



Plot 7.2.18 Peak excursion measurement

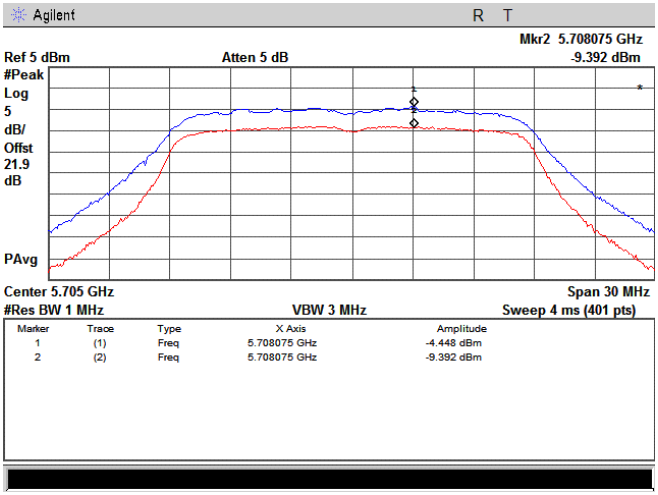
Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



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:	12/07/2008		
Temperature: 22ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 48%	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

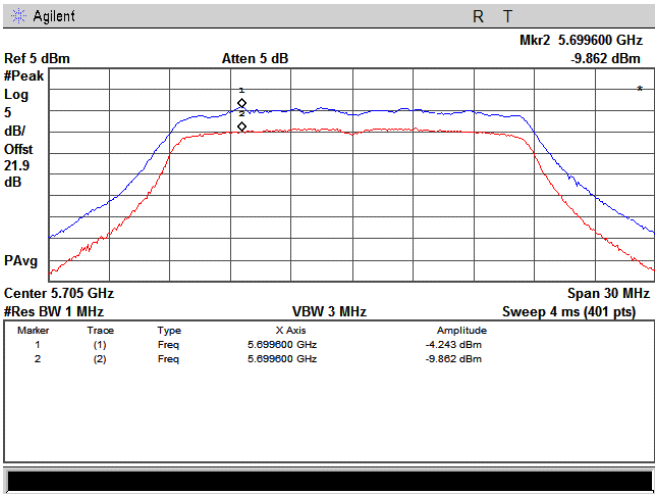
Plot.7.2.19 Peak excursion measurement

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



Plot.7.2.20 Peak excursion measurement

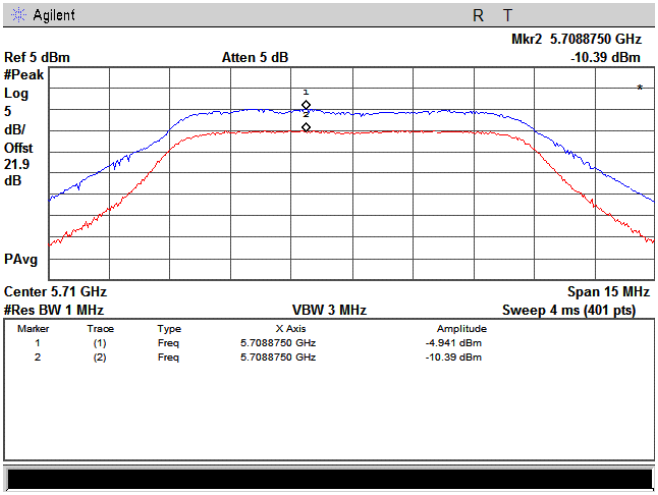
Frequency: 5705 MHz
Channel BW: 20 MHz
Modulation parameters: QPSK; 130 MBps



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:	12/07/2008		
Temperature: 22ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 48%	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

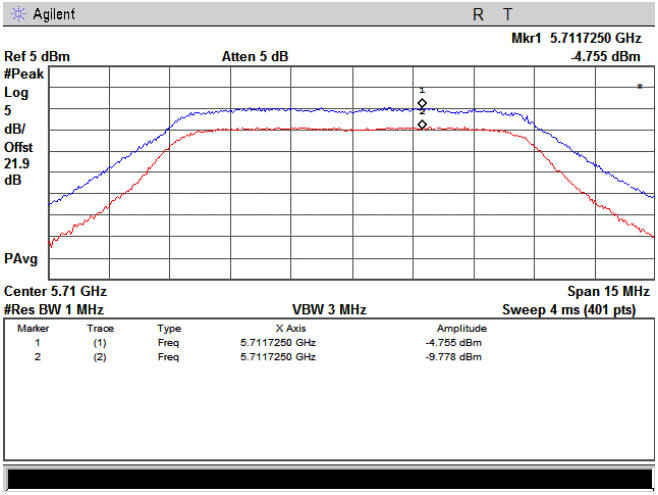
Plot 7.2.21 Peak excursion measurement

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



Plot 7.2.22 Peak excursion measurement

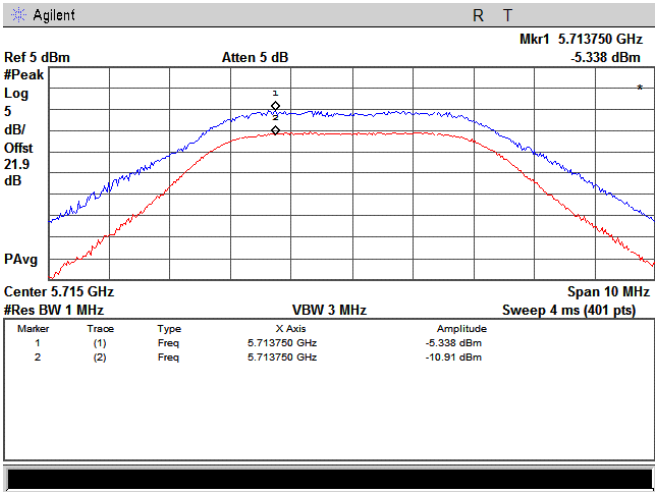
Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 65 MBps



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:	12/07/2008		
Temperature: 22ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 48%	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

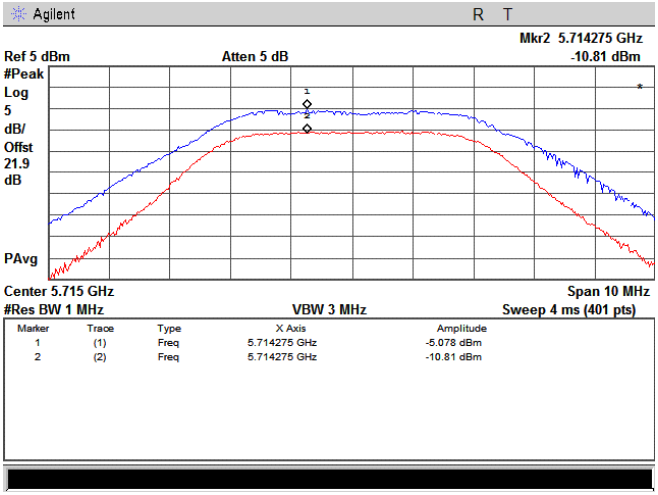
Plot 7.2.23 Peak excursion measurement

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



Plot 7.2.24 Peak excursion measurement

Frequency:	5715 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:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

Table 7.2.3 Peak excursion test results

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz
DETECTOR USED: 1-st trace: Peak, Max Hold
2-nd trace: Peak, 100 Power Averaging
TRANSMITTER OUTPUT POWER 9.5 dBm at 20 MHz BW;
7.5 dBm at 10 MHz BW;
5 dBm at 5 MHz BW
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							
5490	13	-9.687	-13.190	3.503	13	-9.497	Pass
5490	130	-9.133	-13.670	4.537	13	-8.463	Pass
5485	6.5	-7.600	-13.390	5.790	13	-7.210	Pass
5485	65	-7.773	-13.230	5.457	13	-7.543	Pass
5480	3.25	-7.787	-14.160	6.373	13	-6.627	Pass
5480	32.5	-7.640	-13.010	5.370	13	-7.630	Pass
Mid channel							
5580	13	-8.822	-12.330	3.508	13	-9.492	Pass
5580	130	-7.823	-12.350	4.527	13	-8.473	Pass
5585	6.5	-6.286	-11.890	5.604	13	-7.396	Pass
5585	65	-6.741	-11.830	5.089	13	-7.911	Pass
5590	3.25	-5.887	-11.730	5.843	13	-7.157	Pass
5590	32.5	-6.651	-12.130	5.479	13	-7.521	Pass
Mid channel (IC only)							
5670	13	-9.524	-13.190	3.666	13	-9.334	Pass
5670	130	-8.485	-13.210	4.725	13	-8.275	Pass
5665	6.5	-6.413	-12.030	5.617	13	-7.383	Pass
5665	65	-6.603	-11.930	5.327	13	-7.673	Pass
5660	3.25	-6.003	-12.270	6.267	13	-6.733	Pass
5660	32.5	-6.145	-12.000	5.855	13	-7.145	Pass
High channel							
5705	13	-9.819	-12.910	3.091	13	-9.909	Pass
5705	130	-7.913	-12.390	4.477	13	-8.523	Pass
5710	6.5	-6.546	-12.050	5.504	13	-7.496	Pass
5710	65	-6.660	-12.020	5.360	13	-7.640	Pass
5715	3.25	-5.494	-10.920	5.426	13	-7.574	Pass
5715	32.5	-5.450	-11.140	5.690	13	-7.310	Pass

* - Margin = Peak excursion – specification limit.

Reference numbers of test equipment used

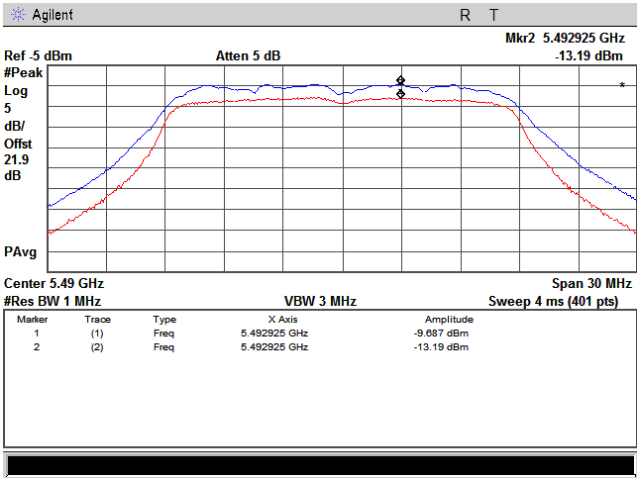
HL 2780	HL 2883	HL 3180					

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:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

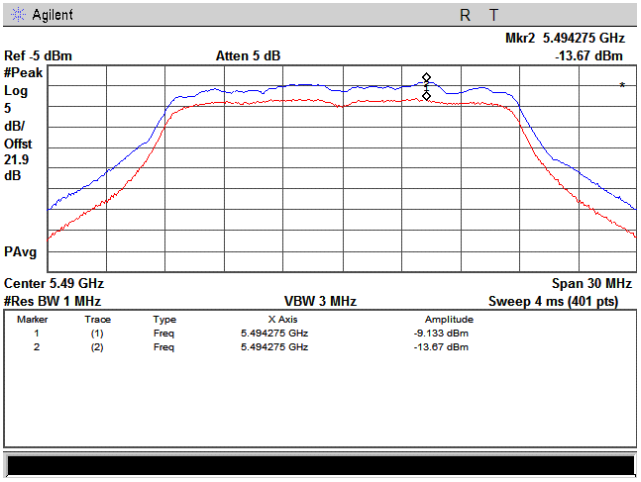
Plot.7.2.25 Peak excursion measurement

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



Plot.7.2.26 Peak excursion measurement

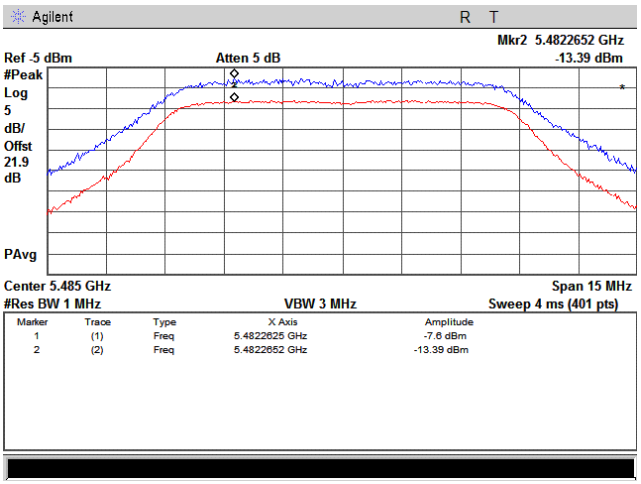
Frequency: 5490 MHz
Channel BW: 20 MHz
Modulation parameters: QPSK; 130 MBps



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:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

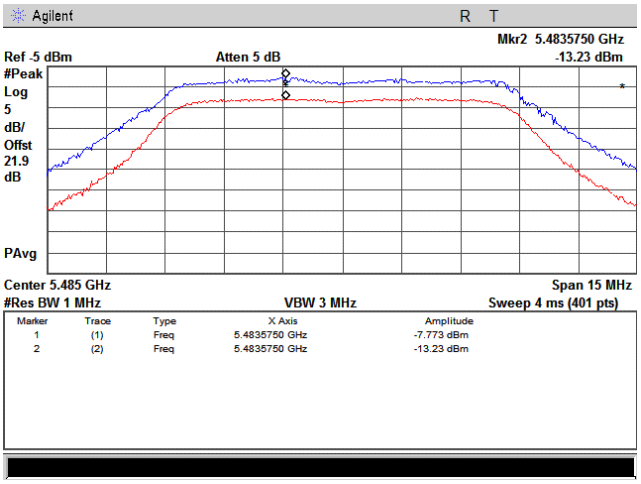
Plot 7.2.27 Peak excursion measurement

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



Plot 7.2.28 Peak excursion measurement

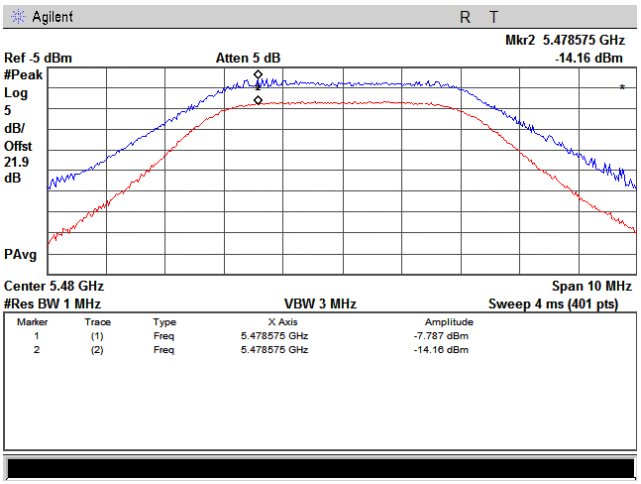
Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 65 MBps



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:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

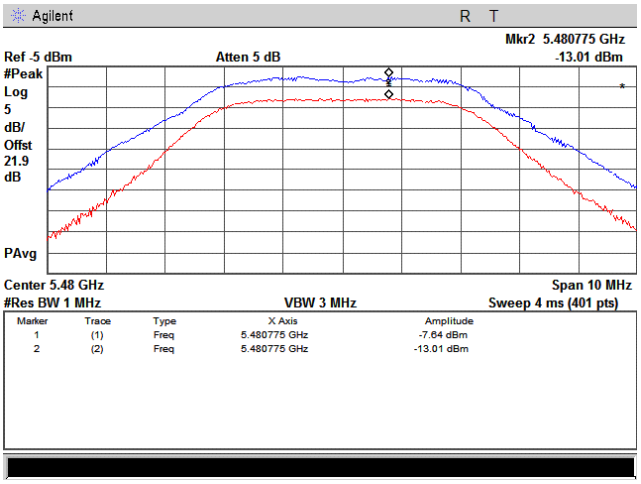
Plot 7.2.29 Peak excursion measurement

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



Plot 7.2.30 Peak excursion measurement

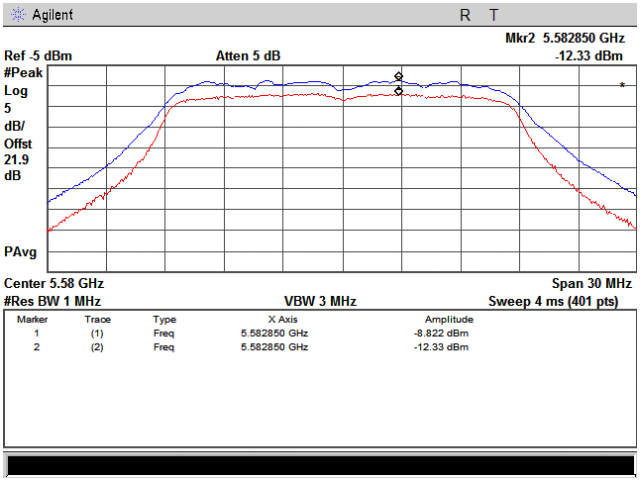
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



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:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

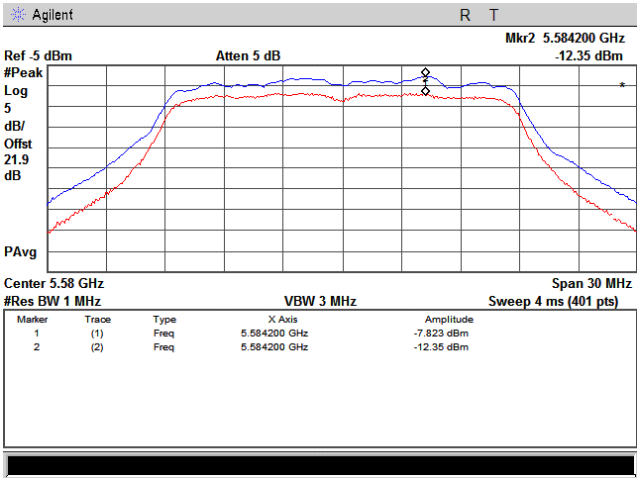
Plot.7.2.31 Peak excursion measurement

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



Plot.7.2.32 Peak excursion measurement

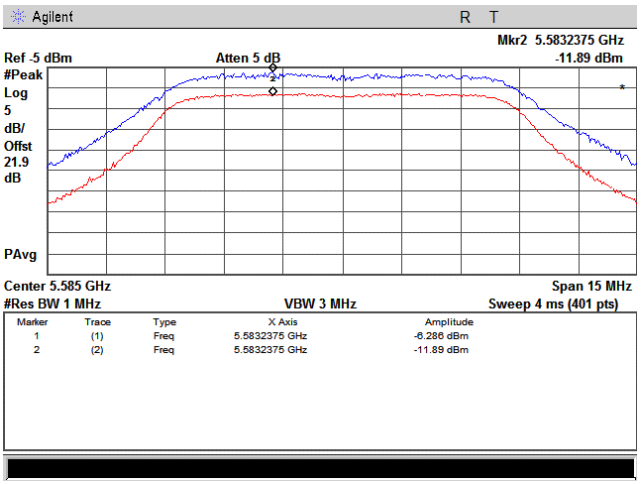
Frequency: 5580 MHz
Channel BW: 20 MHz
Modulation parameters: QPSK; 130 MBps



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:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

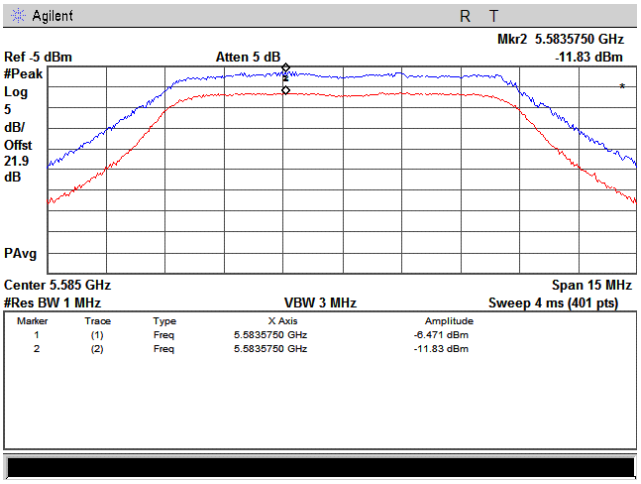
Plot 7.2.33 Peak excursion measurement

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



Plot 7.2.34 Peak excursion measurement

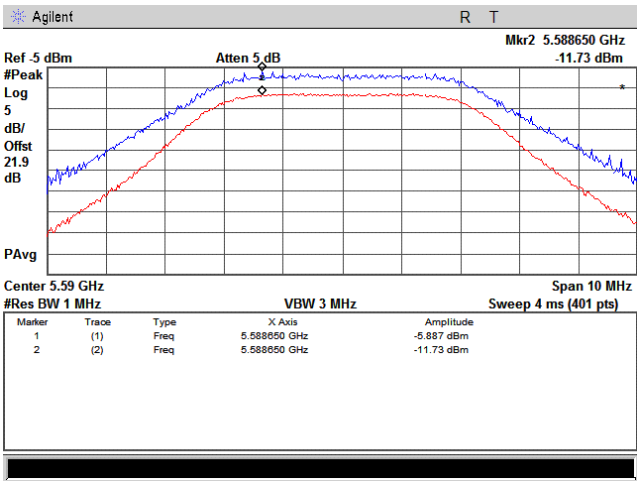
Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 65 MBps



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:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

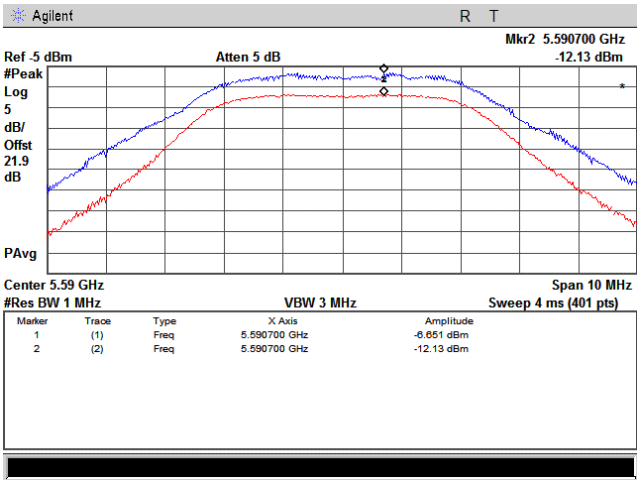
Plot 7.2.35 Peak excursion measurement

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



Plot 7.2.36 Peak excursion measurement

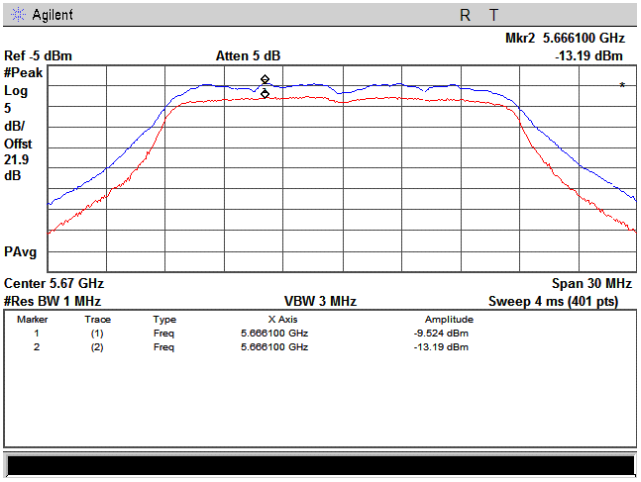
Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



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:**	PASS
Date:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

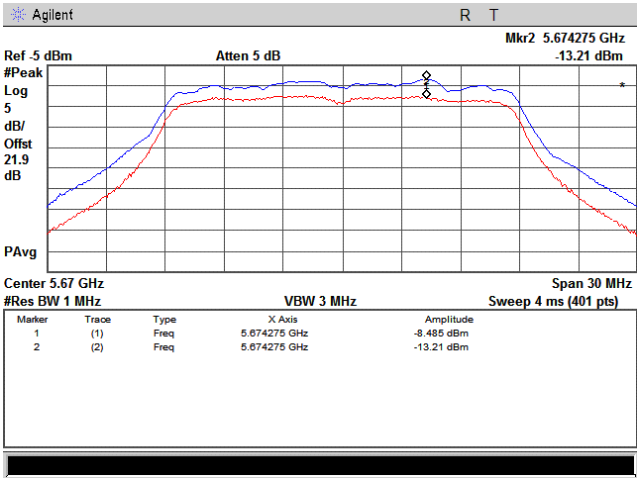
Plot.7.2.37 Peak excursion measurement

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



Plot.7.2.38 Peak excursion measurement

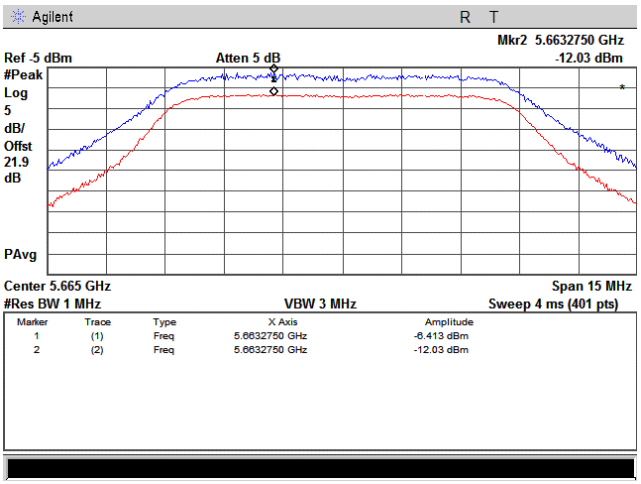
Frequency: 5670 MHz
Channel BW: 20 MHz
Modulation parameters: QPSK; 130 MBps



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:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

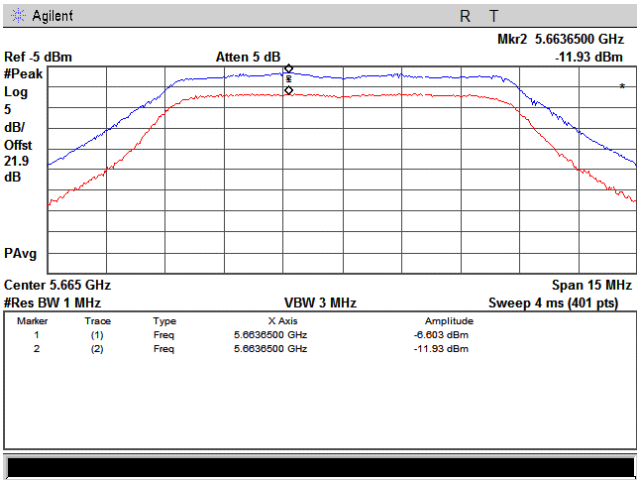
Plot 7.2.39 Peak excursion measurement

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



Plot 7.2.40 Peak excursion measurement

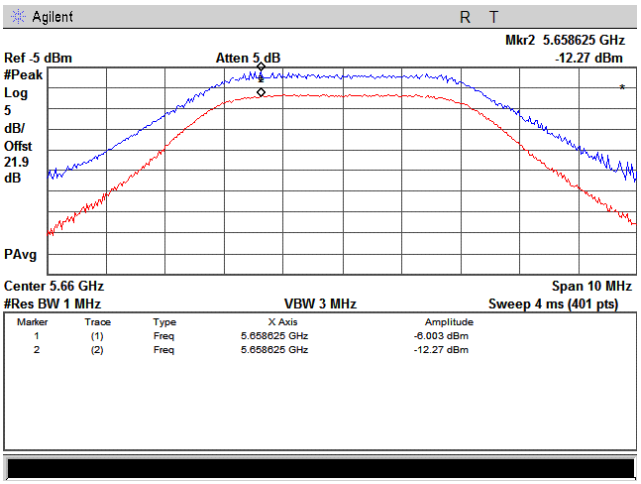
Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 65 MBps



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:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

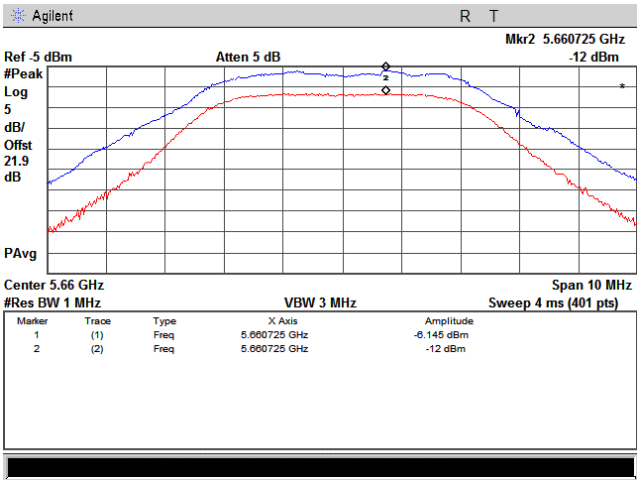
Plot 7.2.41 Peak excursion measurement

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



Plot 7.2.42 Peak excursion measurement

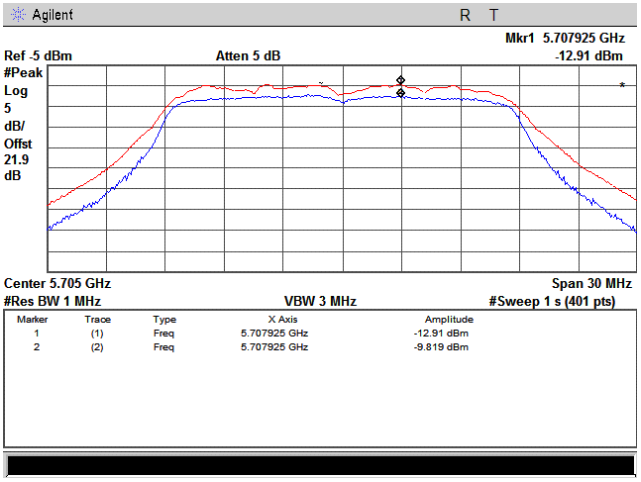
Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



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:**	PASS
Date:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

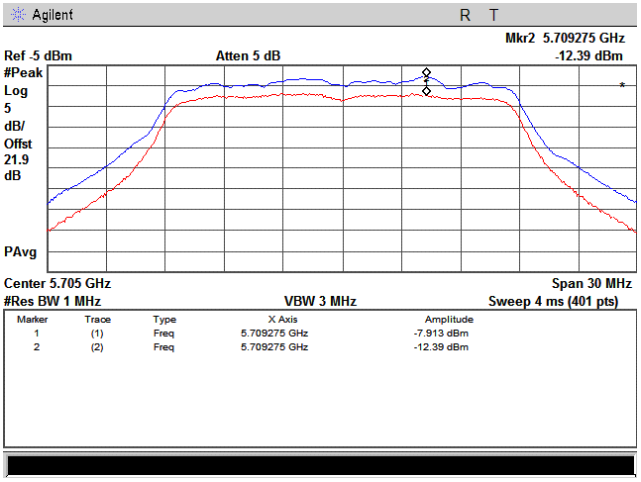
Plot.7.2.43 Peak excursion measurement

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



Plot.7.2.44 Peak excursion measurement

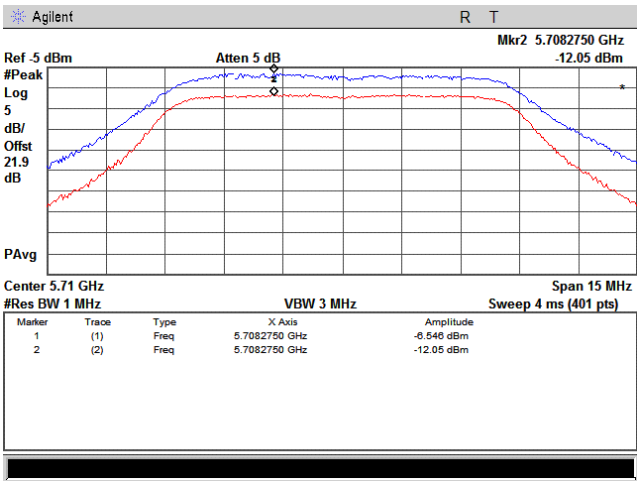
Frequency: 5705 MHz
Channel BW: 20 MHz
Modulation parameters: QPSK; 130 MBps



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:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

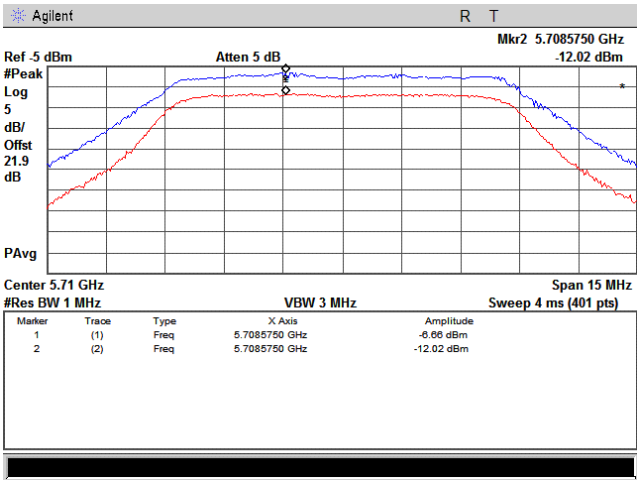
Plot 7.2.45 Peak excursion measurement

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



Plot 7.2.46 Peak excursion measurement

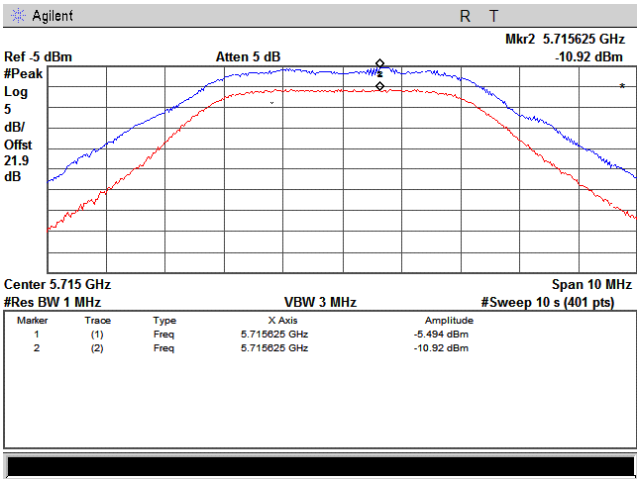
Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 65 MBps



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:	11/25/2008		
Temperature: 23ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

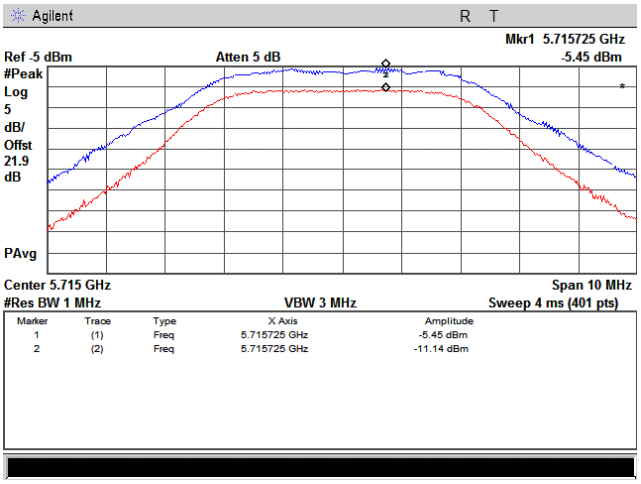
Plot 7.2.47 Peak excursion measurement

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



Plot 7.2.48 Peak excursion measurement

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



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	12/04/2008		
Temperature: 23ºC	Air Pressure: 1011 hPa	Relative Humidity: 45 %	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(μV/m)***		
	Peak	Quasi Peak	Average
0.009 – 0.490*	NA	128.5 – 93.8**	NA
0.490 – 1.705*		73.8 – 63.0**	
1.705 – 30.0*		69.5**	
30 – 88		40.0	
88 – 216		43.5	
216 – 960		46.0	
960 - 1000		54.0	
Above 1000	74.0	NA	54.0

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

LimS2 = LimS1 + 40 log (S1/S2),

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

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

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

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

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

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

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

7.3.2.2 The specified frequency range was investigated with antenna connected to spectrum analyzer/ EMI receiver. To find maximum radiation the turntable was rotated 360^0 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 360^0, 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 A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	12/04/2008		
Temperature: 23ºC	**Air Pressure:** 1011 hPa	**Relative Humidity:** 45 %	**Power Supply:** 120 VAC
Remarks:			

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

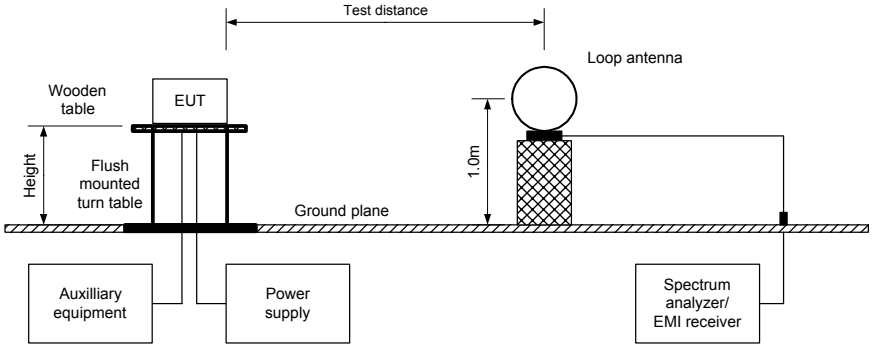
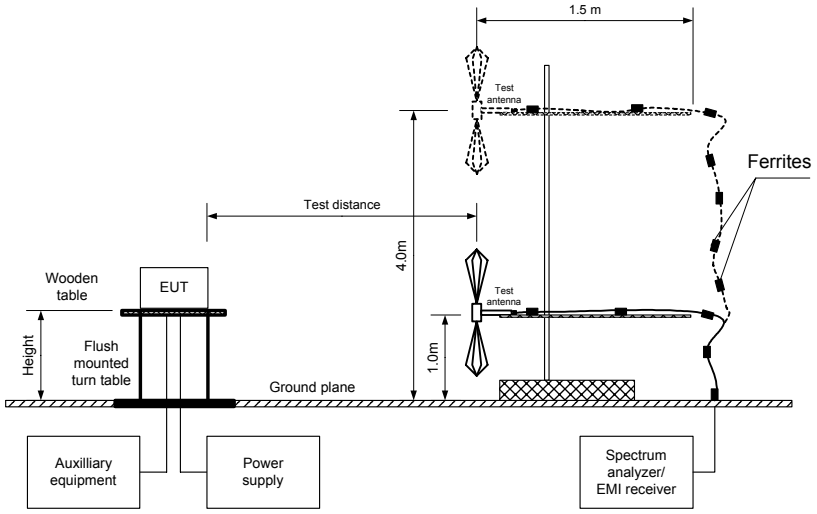


Figure 7.3.2 Setup for spurious emission field strength measurements above 30 MHz



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

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

ASSIGNED FREQUENCY RANGE:	5470 - 5725 MHz
INVESTIGATED FREQUENCY RANGE:	0.009 - 1000 MHz
TEST SITE	Semi Anechoic Chamber
TEST DISTANCE:	3 m
MODULATION:	OFDM, 64QAM
BIT RATE:	32.5 Mbps
DUTY CYCLE:	100 %
TRANSMITTER OUTPUT POWER	Maximum
RESOLUTION BANDWIDTH:	1.0 kHz (9 kHz – 150 kHz) 9.0 kHz (150 kHz – 30 MHz) 120 kHz (30 MHz – 1000 MHz)
VIDEO BANDWIDTH:	> Resolution bandwidth
TEST ANTENNA TYPE:	Active loop (9 kHz – 30 MHz) Biconilog (30 MHz – 1000 MHz) Double ridged guide (above 1000 MHz)

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

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

Reference numbers of test equipment used

HL 0446	HL 0521	HL 0589	HL 0604	HL 1425	HL 1556	HL 1984	HL 1947
HL 2009	HL 2909						

Full description is given in Appendix A.

Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

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

ASSIGNED FREQUENCY RANGE:	5470 - 5725 MHz
INVESTIGATED FREQUENCY RANGE:	0.009 - 40000 MHz
TEST SITE	Semi Anechoic Chamber
TEST DISTANCE:	3 m
MODULATION:	OFDM, 64QAM
BIT RATE:	32.5 Mbps
DUTY CYCLE:	100 %
TRANSMITTER OUTPUT POWER	Maximum
RESOLUTION BANDWIDTH:	1000 kHz
VIDEO BANDWIDTH:	> Resolution bandwidth
TEST ANTENNA TYPE:	Double ridged guide (above 1000 MHz)

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

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

Reference numbers of test equipment used

HL 0446	HL 0521	HL 0589	HL 0604	HL 1425	HL 1556	HL 1984	HL 1947
HL 2009	HL 2909						

Full description is given in Appendix A.

Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

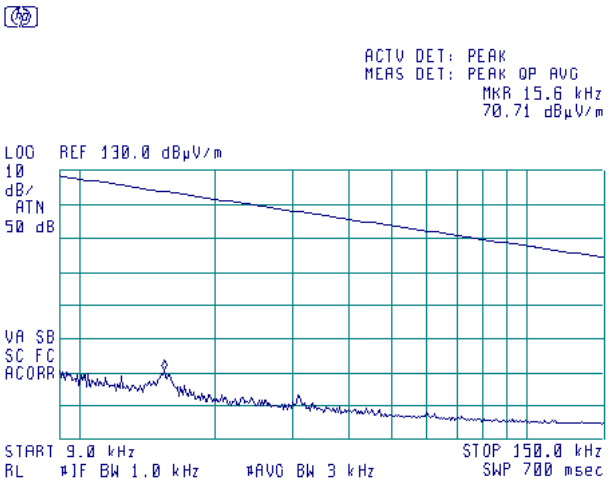
Table 7.3.5 Restricted bands

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

Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

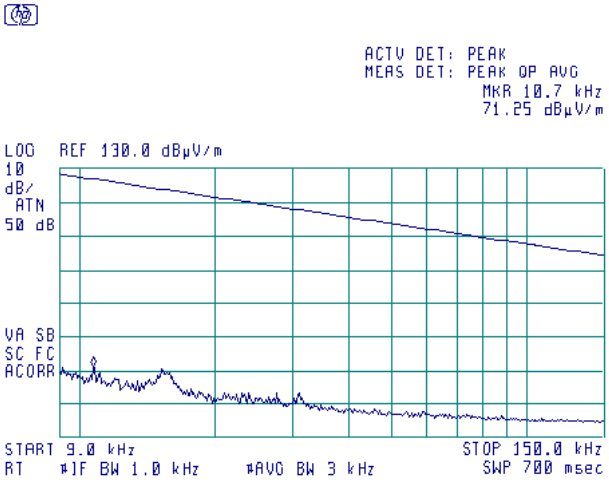
Plot 7.3.1 Radiated emission measurements from 9 to 150 kHz at the low carrier frequency

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



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

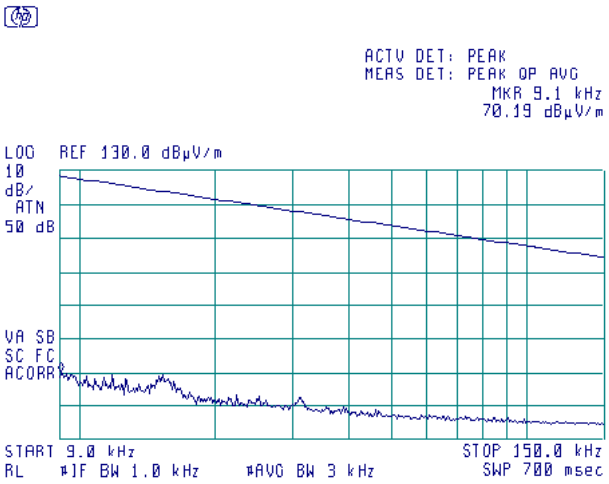
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

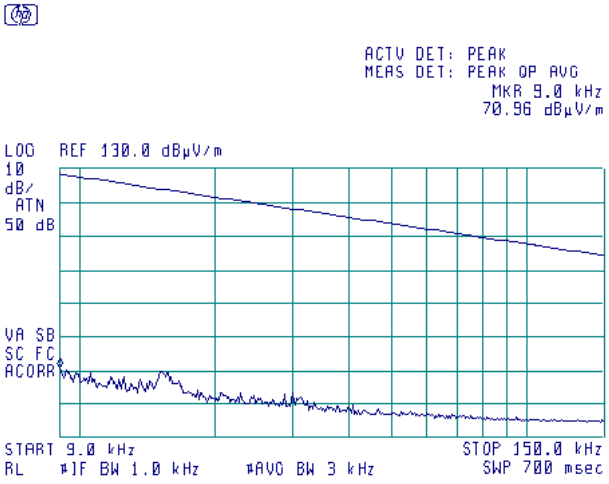
Plot 7.3.3 Radiated emission measurements from 9 to 150 kHz at the second mid carrier frequency

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



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

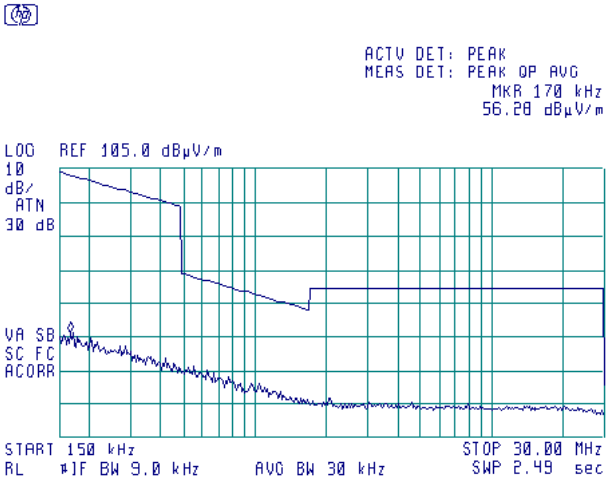
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

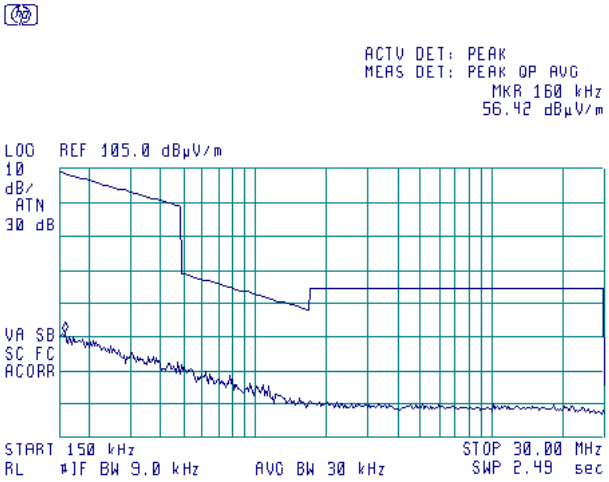
Plot 7.3.5 Radiated emission measurements from 0.15 MHz to 30 MHz at the low carrier frequency

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

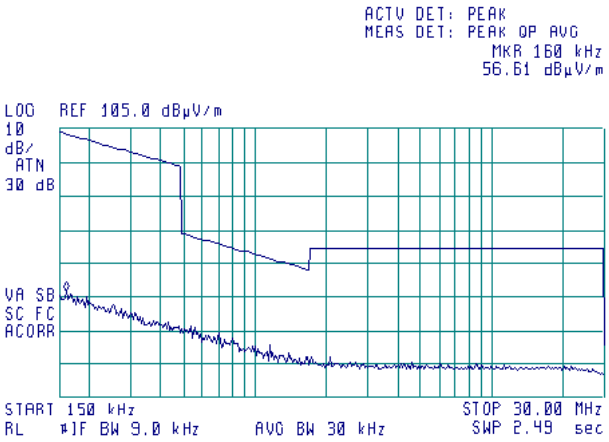
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

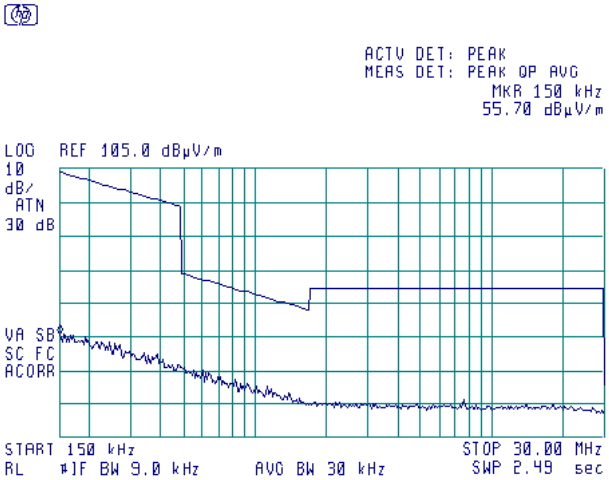
Plot 7.3.7 Radiated emission measurements from 0.15 MHz to 30 MHz at the second mid carrier frequency

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



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

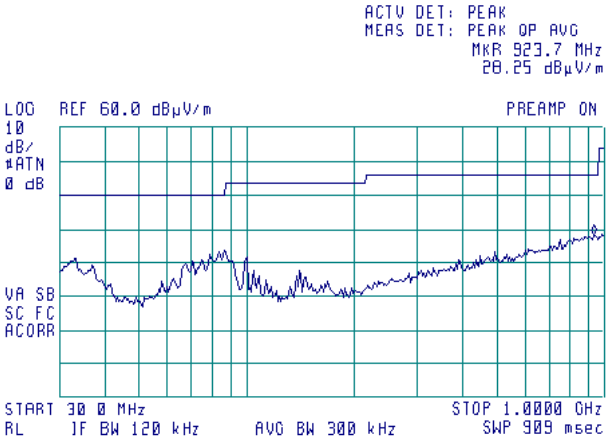
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

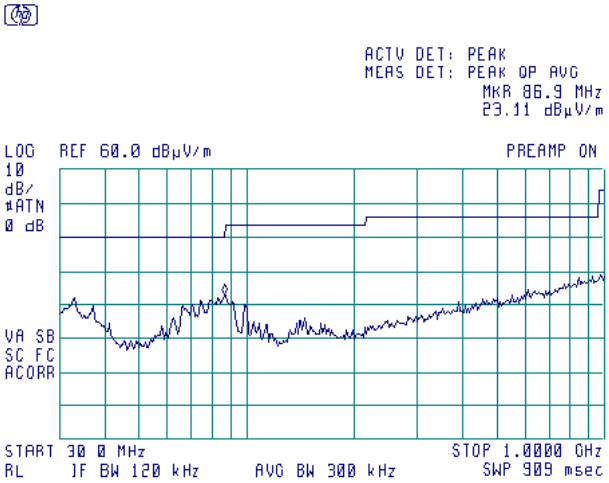
Plot 7.3.9 Radiated emission measurements from 30 MHz to 1000 MHz at the low carrier frequency

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



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

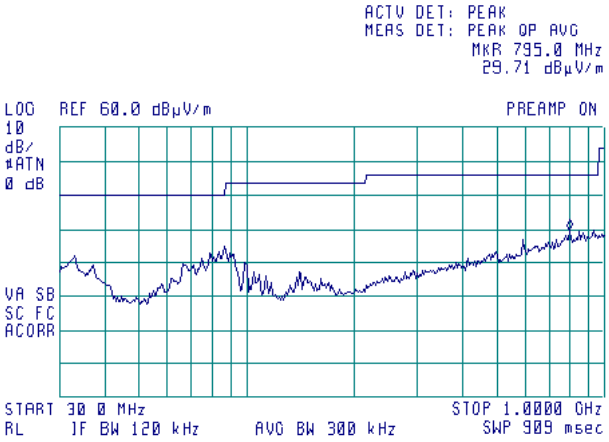
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

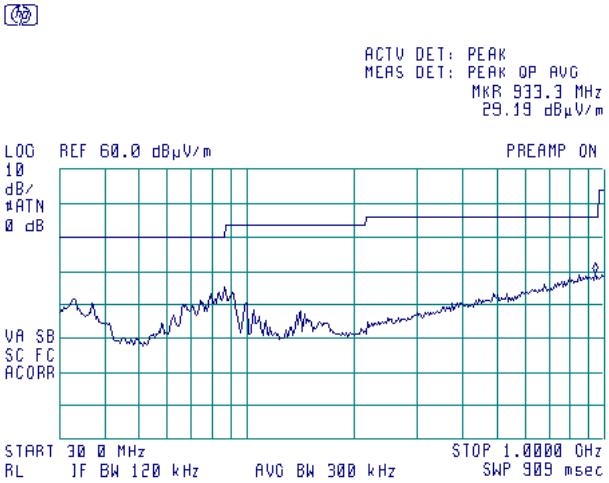
Plot 7.3.11 Radiated emission measurements from 30 MHz to 1000 MHz at the second mid carrier frequency

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



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

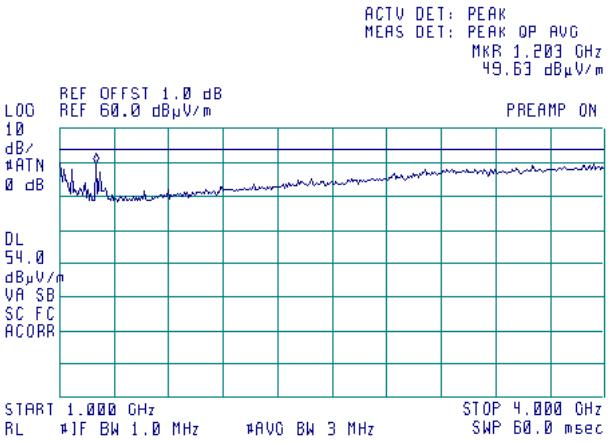
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

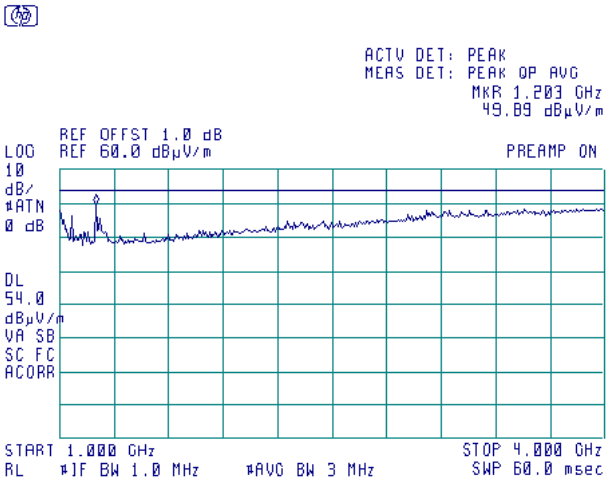
Plot 7.3.13 Radiated emission measurements from 1.0 to 4.0 GHz at the low carrier frequency

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



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

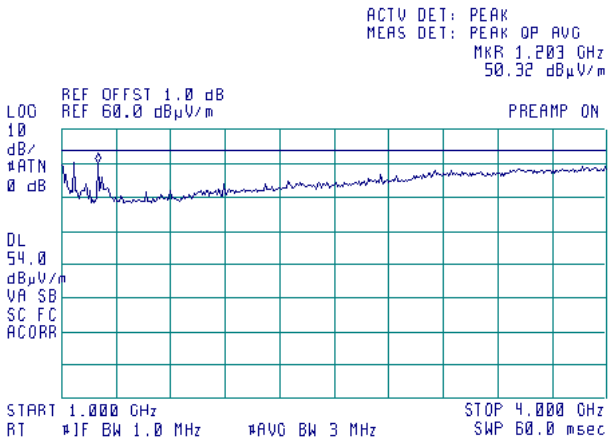
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak under average limit



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

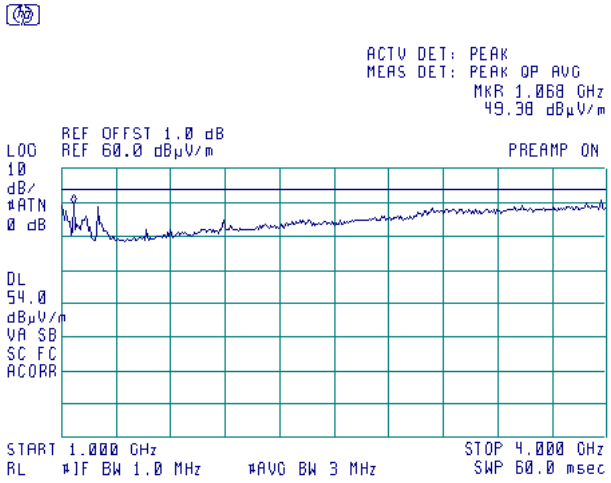
Plot 7.3.15 Radiated emission measurements from 1.0 to 4.0 GHz at the second mid carrier frequency

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



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

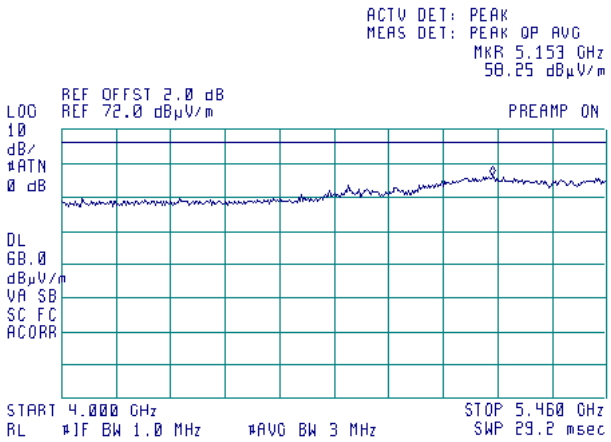
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak under average limit



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

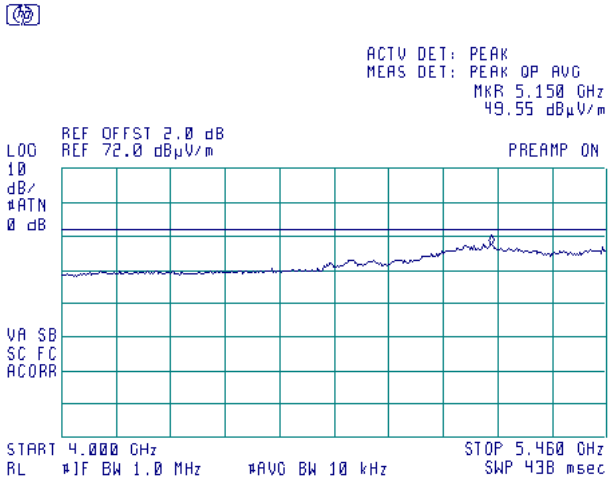
Plot 7.3.17 Radiated emission measurements from 4.0 to 5.46 GHz at the low carrier frequency

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



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

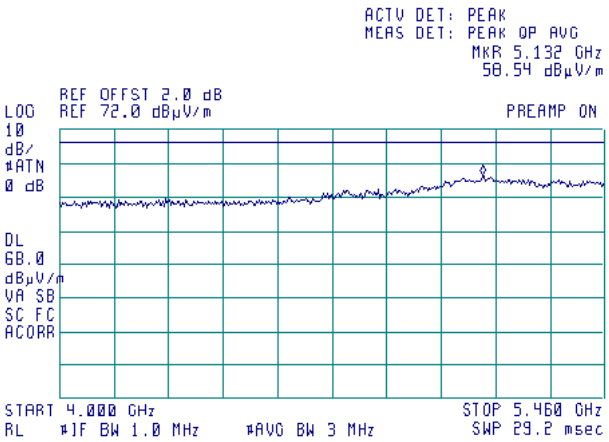
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

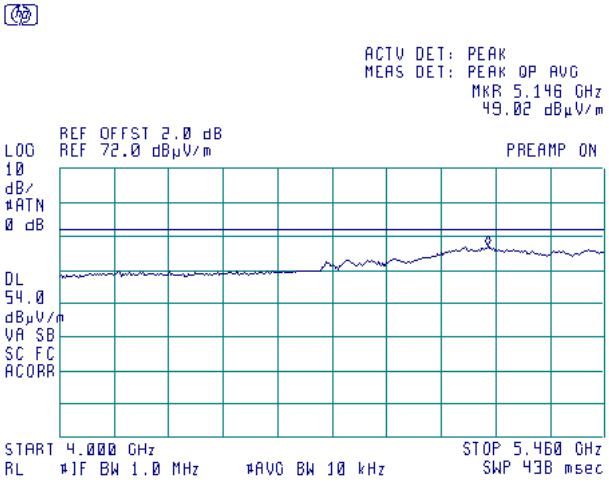
Plot 7.3.19 Radiated emission measurements from 4.0 to 5.46 GHz at the first mid carrier frequency

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



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

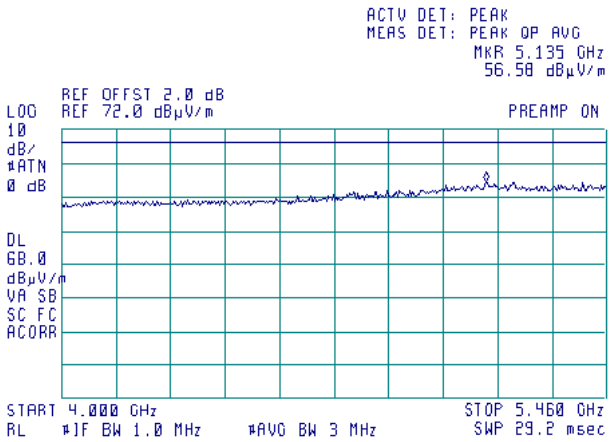
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

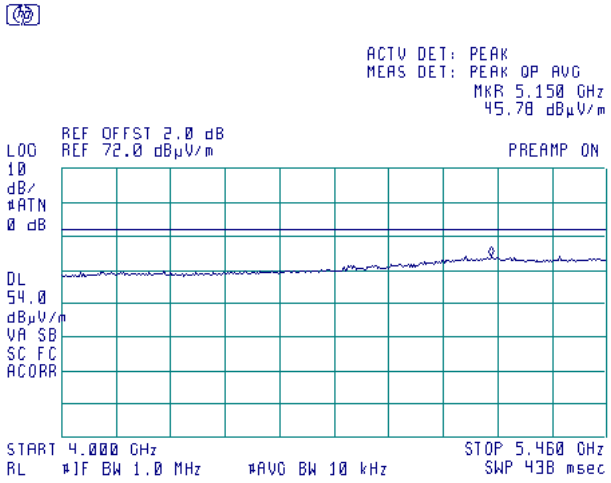
Plot 7.3.21 Radiated emission measurements from 4.0 to 5.46 GHz at the second mid carrier frequency

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



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

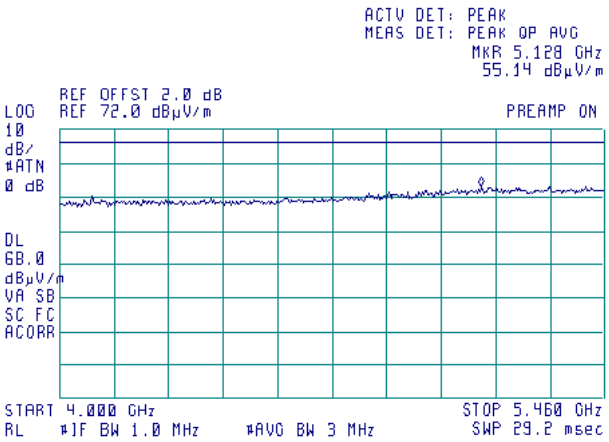
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

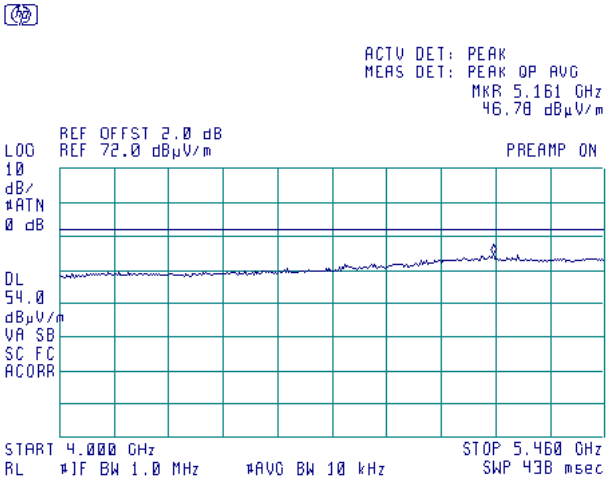
Plot 7.3.23 Radiated emission measurements from 4.0 to 5.46 GHz at the high carrier frequency

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



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

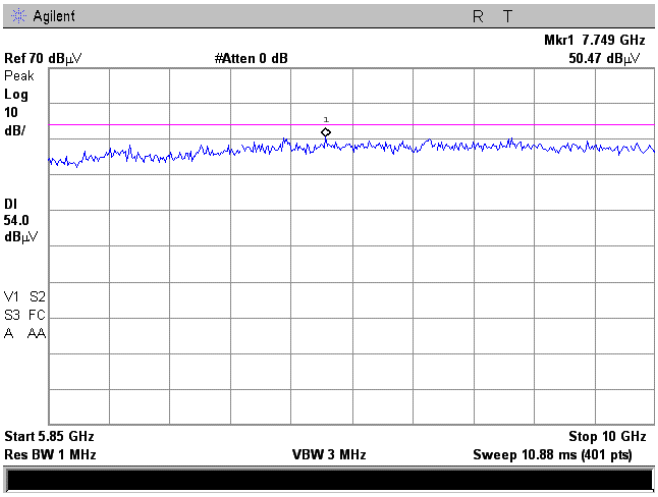
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

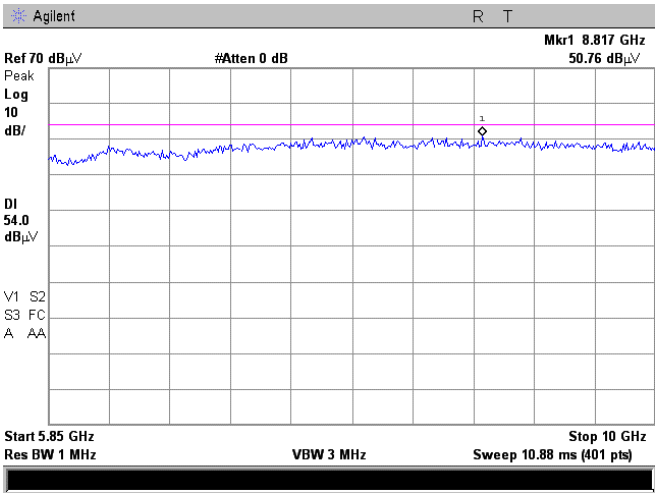
Plot 7.3.25 Radiated emission measurements from 5.85 to 10 GHz at the low carrier frequency

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



Plot 7.3.26 Radiated emission measurements from 5.85 to 10 GHz at the first mid carrier frequency

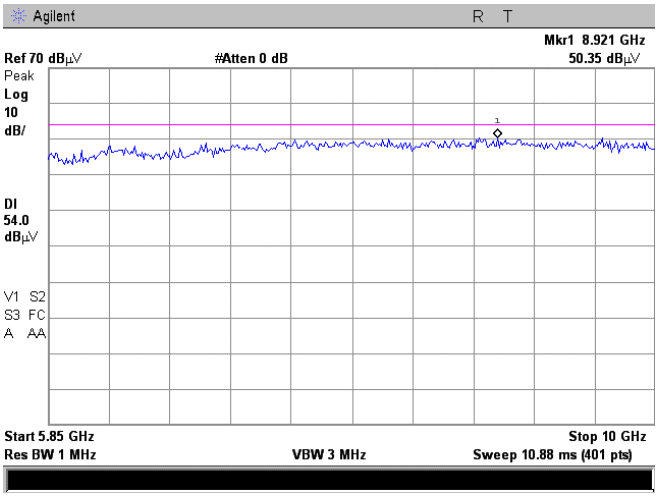
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak under average limit



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

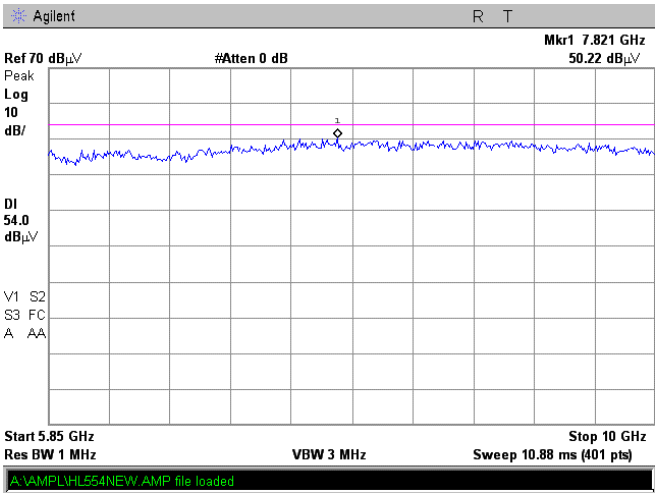
Plot 7.3.27 Radiated emission measurements from 5.85 to 10 GHz at the second mid carrier frequency

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



Plot 7.3.28 Radiated emission measurements from 5.85 to 10 GHz at the high carrier frequency

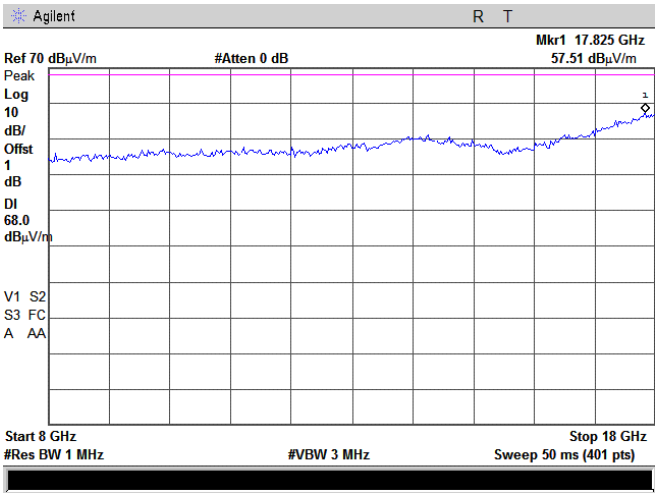
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak under average limit



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

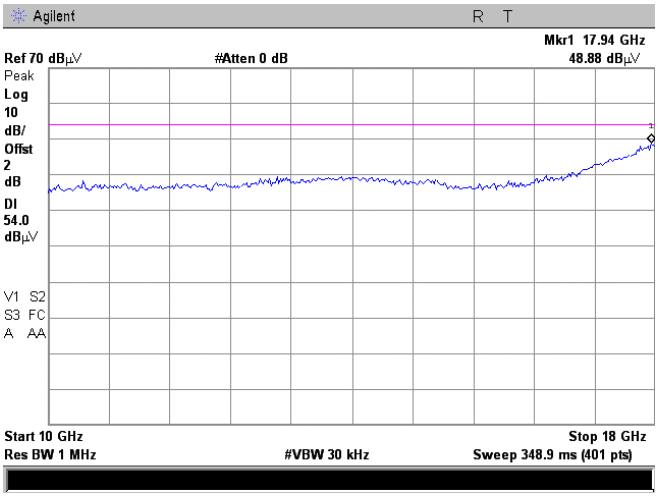
Plot 7.3.29 Radiated emission measurements from 10 to 18 GHz at the low carrier frequency

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



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

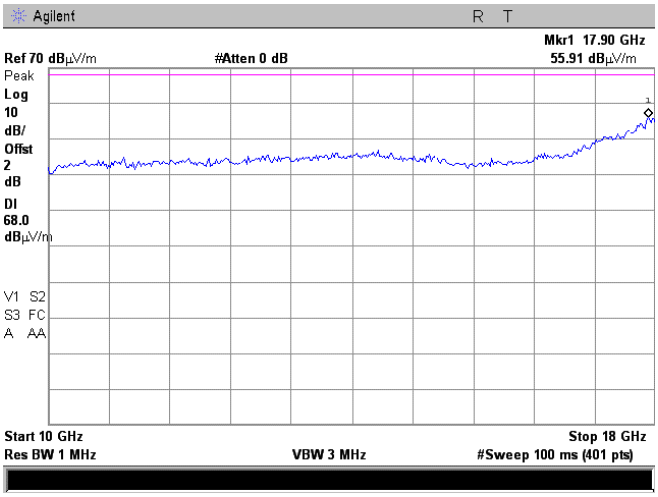
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

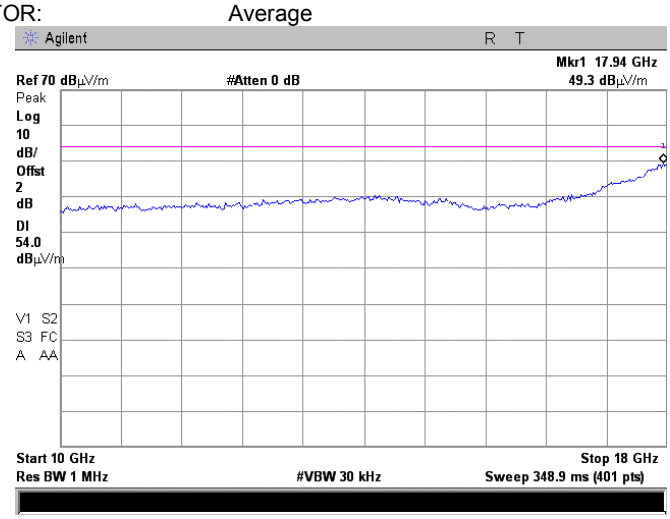
Plot 7.3.31 Radiated emission measurements from 10 to 18 GHz at the first mid carrier frequency

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



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

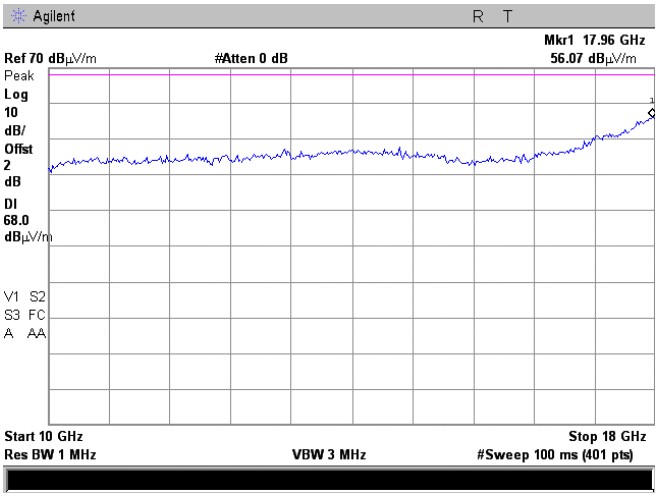
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

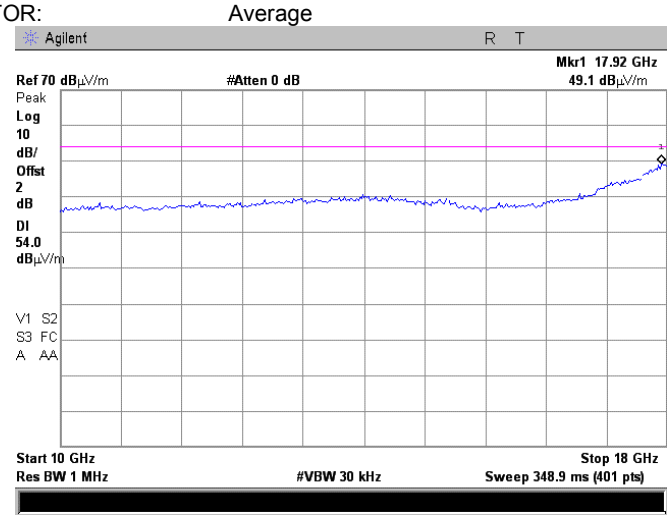
Plot 7.3.33 Radiated emission measurements from 10 to 18 GHz at the second mid carrier frequency

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



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

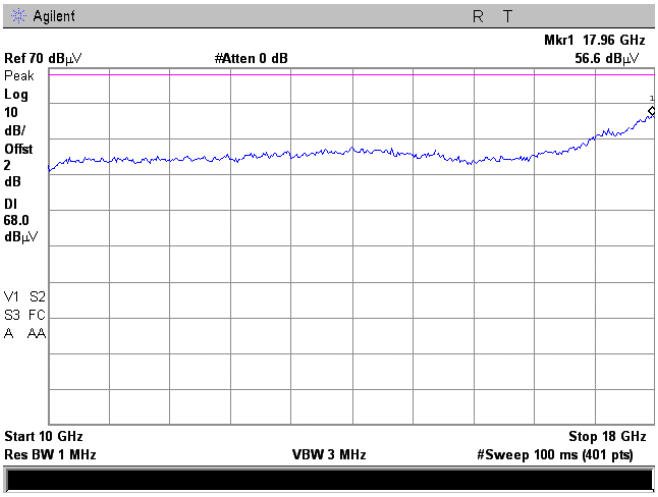
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

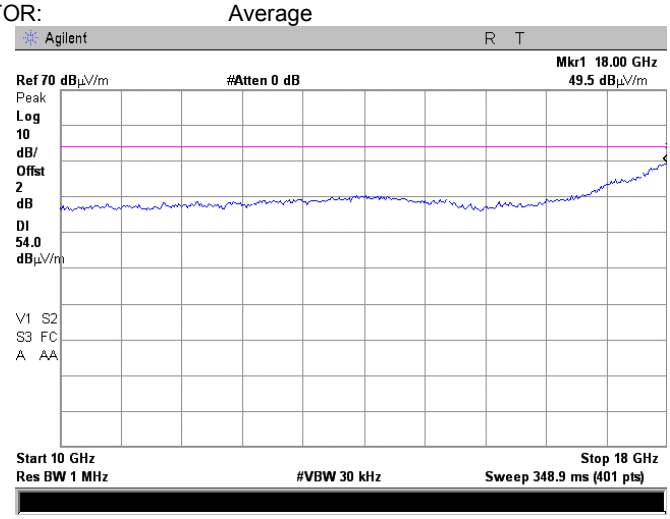
Plot 7.3.35 Radiated emission measurements from 10 to 18 GHz at the high carrier frequency

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



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

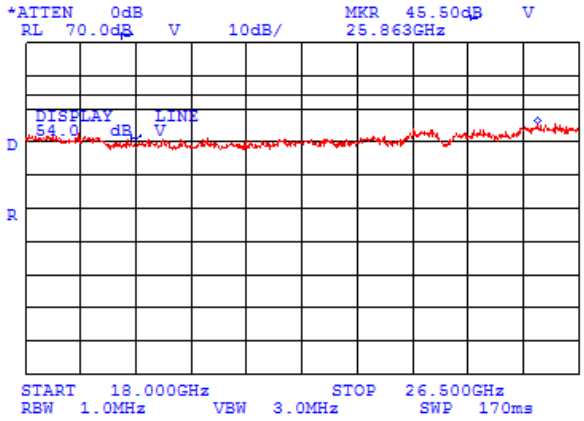
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

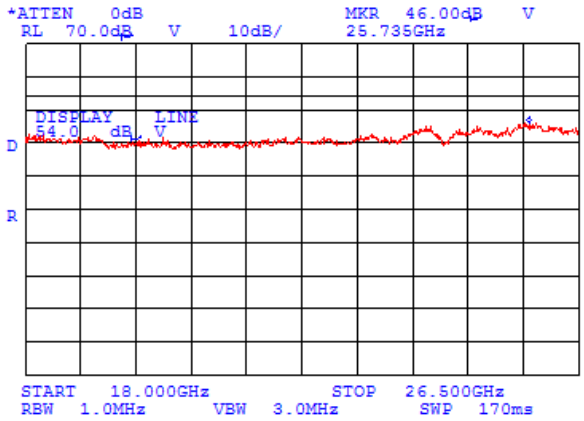
Plot 7.3.37 Radiated emission measurements from 18 to 26.5 GHz at the low carrier frequency

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



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

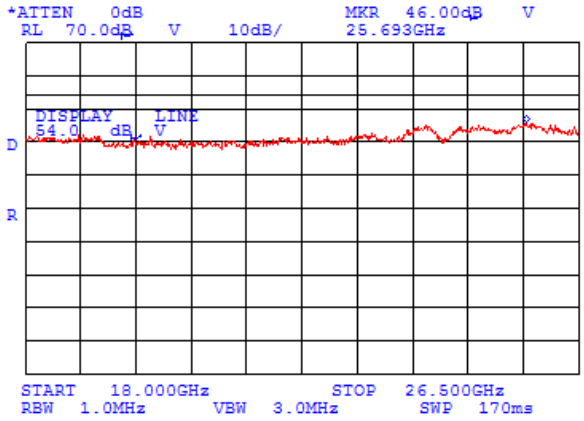
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak under average limit



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

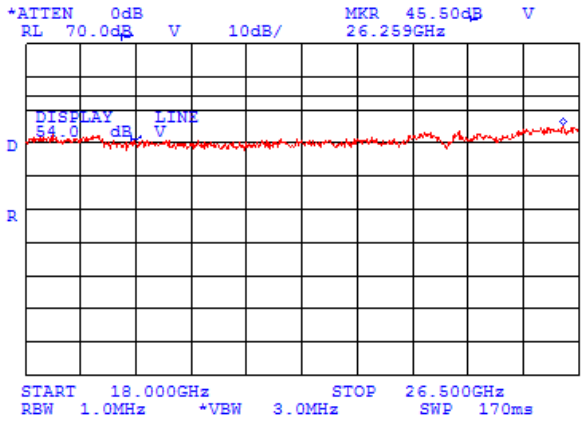
Plot 7.3.39 Radiated emission measurements from 18 to 26.5 GHz at the second mid carrier frequency (5485MHz)

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



. Plot 7.3.40 Radiated emission measurements from 18 to 26.5 GHz at the high carrier frequency (5485MHz)

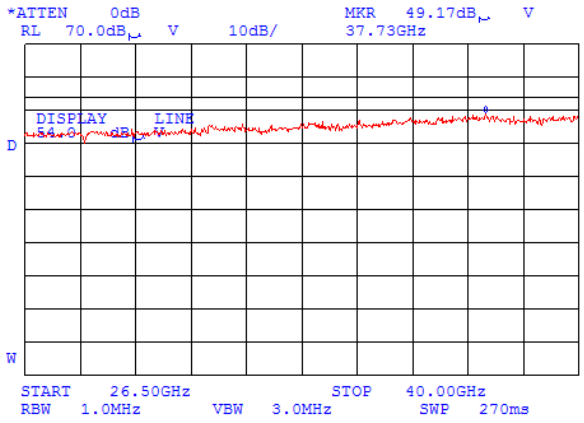
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak under average limit



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

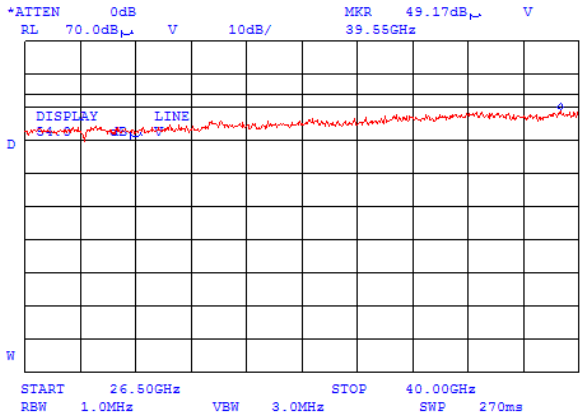
Plot 7.3.41 Radiated emission measurements from 26.5 to 40 GHz at the low carrier frequency

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



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

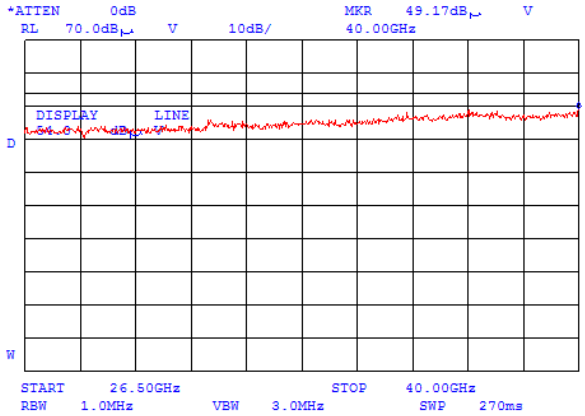
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak under average limit



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

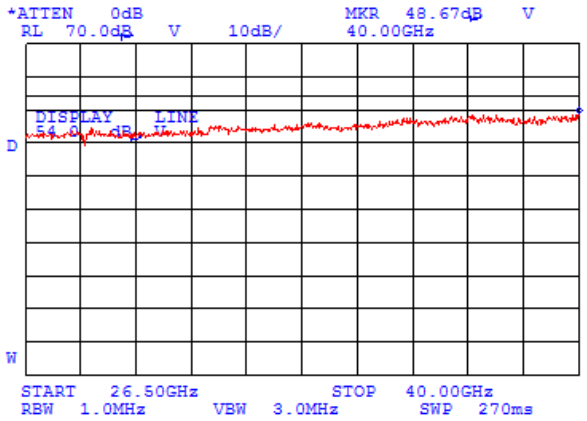
Plot 7.3.43 Radiated emission measurements from 26.5 to 40 GHz at the second mid carrier frequency

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



Plot 7.3.44 Radiated emission measurements from 26.5 to 40 GHz at the high carrier frequency (5475MHz)

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



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

Table 7.3.6 Field strength of spurious emissions below 1 GHz within restricted bands

ASSIGNED FREQUENCY RANGE:	5470 - 5725 MHz
INVESTIGATED FREQUENCY RANGE:	0.009 - 1000 MHz
TEST SITE	Semi Anechoic Chamber
TEST DISTANCE:	3 m
MODULATION:	OFDM 64QAM
BIT RATE:	32.5 Mbps
DUTY CYCLE:	100 %
TRANSMITTER OUTPUT POWER	Maximum
RESOLUTION BANDWIDTH:	1.0 kHz (9 kHz – 150 kHz) 9.0 kHz (150 kHz – 30 MHz) 120 kHz (30 MHz – 1000 MHz)
VIDEO BANDWIDTH:	> Resolution bandwidth
TEST ANTENNA TYPE:	Active loop (9 kHz – 30 MHz) Biconilog (30 MHz – 1000 MHz) Double ridged guide (above 1000 MHz)

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

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

Reference numbers of test equipment used

HL 0446	HL 0521	HL 0589	HL 0604	HL 1425	HL 1556	HL 1947	HL 1984
HL 2009	HL 2909						

Full description is given in Appendix A.

Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

Table 7.3.7 Field strength of spurious emissions above 1 GHz within restricted bands

ASSIGNED FREQUENCY RANGE:	5470 - 5725 MHz
INVESTIGATED FREQUENCY RANGE:	0.009 - 40000 MHz
TEST SITE	Semi Anechoic Chamber
TEST DISTANCE:	3 m
MODULATION:	OFDM, 64QAM
BIT RATE:	32.5 Mbps
DUTY CYCLE:	100 %
TRANSMITTER OUTPUT POWER	Maximum
RESOLUTION BANDWIDTH:	1000 kHz
VIDEO BANDWIDTH:	> Resolution bandwidth
TEST ANTENNA TYPE:	Double ridged guide

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

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

Reference numbers of test equipment used

HL 0446	HL 0521	HL 0589	HL 0604	HL 1425	HL 1556	HL 1947	HL 1984
HL 2009	HL 2909						

Full description is given in Appendix A.

Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

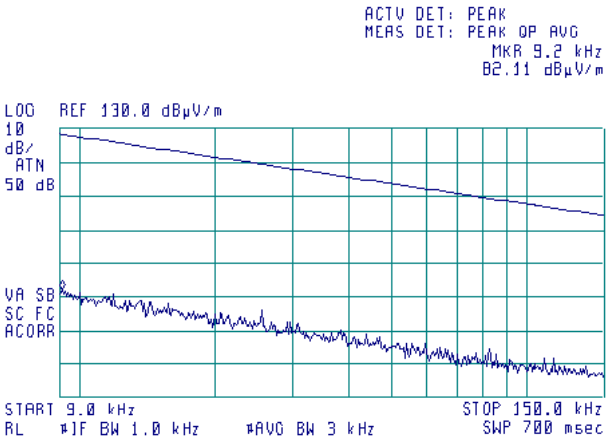
Table 7.3.8 Restricted bands

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

Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

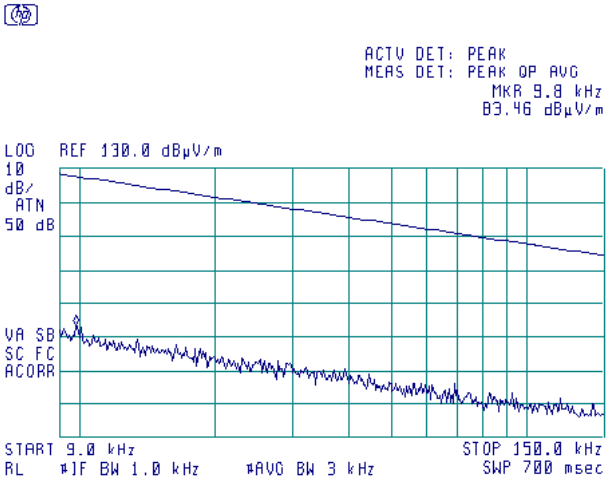
Plot 7.3.45 Radiated emission measurements from 9 to 150 kHz at the low carrier frequency

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



Plot 7.3.46 Radiated emission measurements from 9 to 150 kHz at the first mid carrier frequency

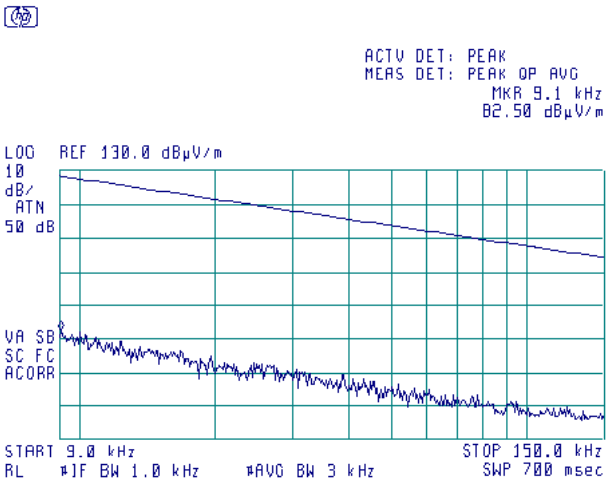
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

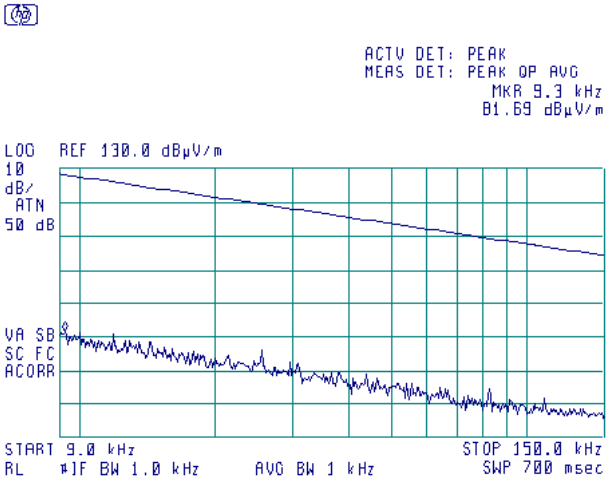
Plot 7.3.47 Radiated emission measurements from 9 to 150 kHz at the second mid carrier frequency

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



Plot 7.3.48 Radiated emission measurements from 9 to 150 kHz at the high carrier frequency

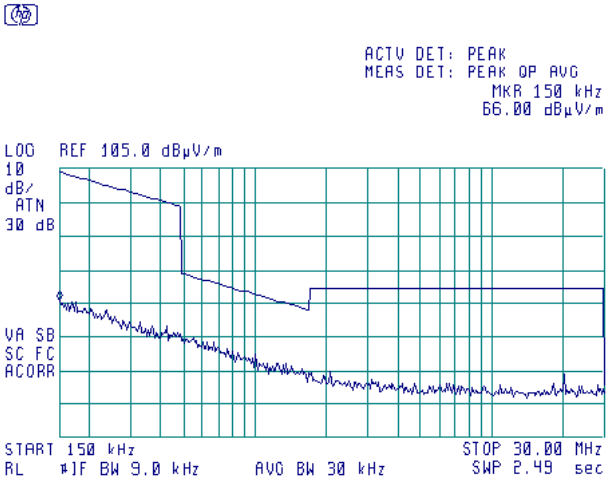
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

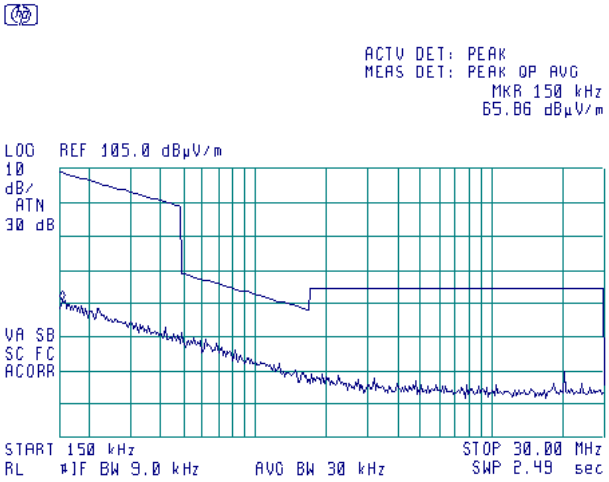
Plot 7.3.49 Radiated emission measurements from 0.15 MHz to 30 MHz at the low carrier frequency

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



Plot 7.3.50 Radiated emission measurements from 0.15 MHz to 30 MHz at the first mid carrier frequency

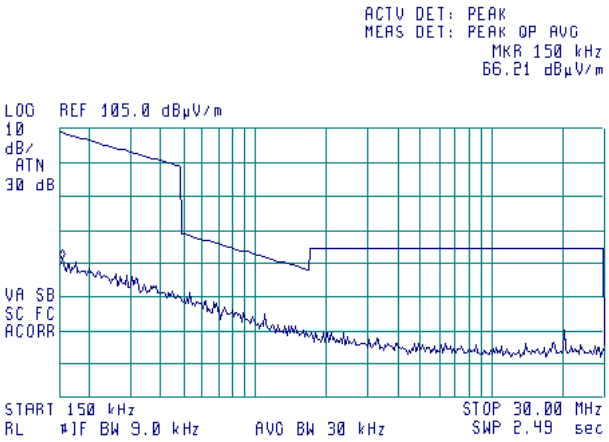
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

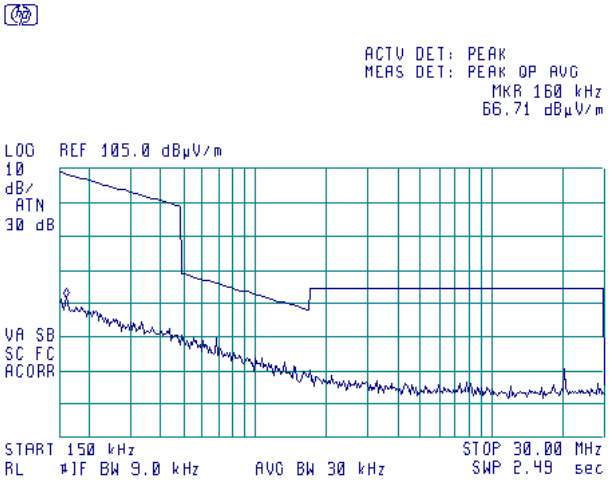
Plot 7.3.51 Radiated emission measurements from 0.15 MHz to 30 MHz at the second mid carrier frequency

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



Plot 7.3.52 Radiated emission measurements from 0.15 MHz to 30 MHz at the high carrier frequency

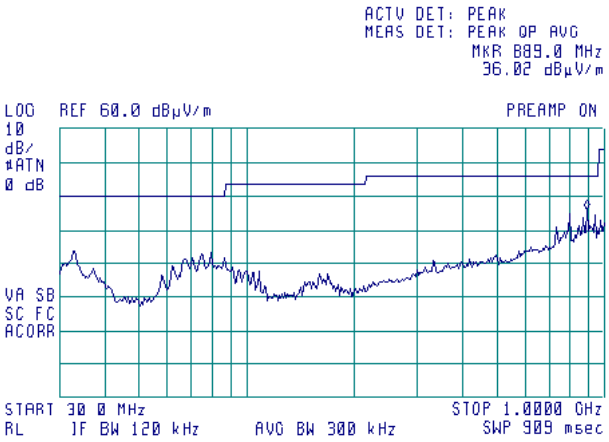
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

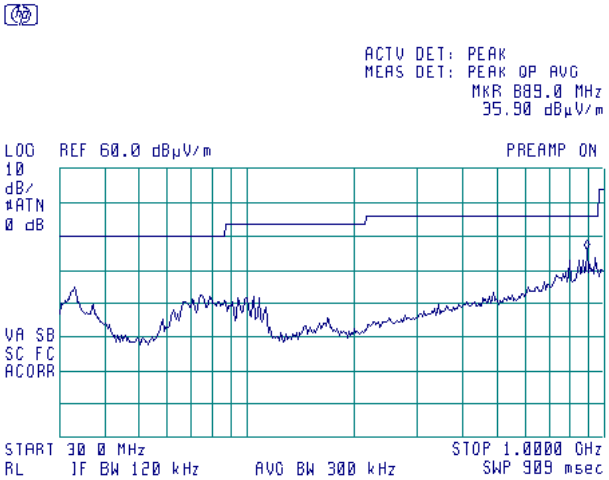
Plot 7.3.53 Radiated emission measurements from 30 MHz to 1000 MHz at the low carrier frequency

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



Plot 7.3.54 Radiated emission measurements from 30 MHz to 1000 MHz at the first mid carrier frequency

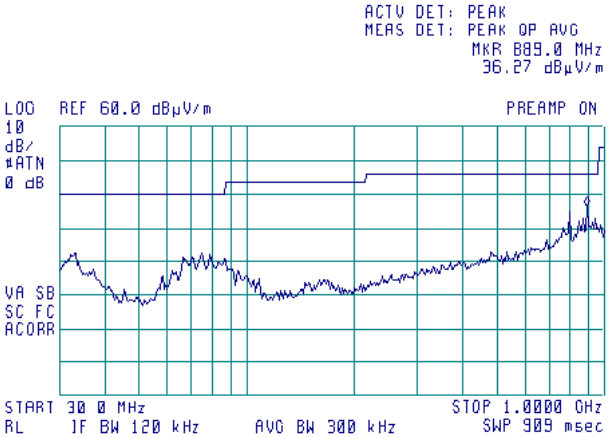
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

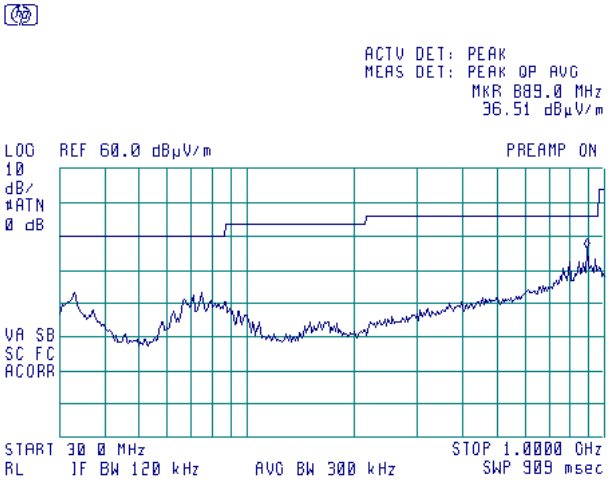
Plot 7.3.55 Radiated emission measurements from 30 MHz to 1000 MHz at the second mid carrier frequency

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



Plot 7.3.56 Radiated emission measurements from 30 MHz to 1000 MHz at the high carrier frequency

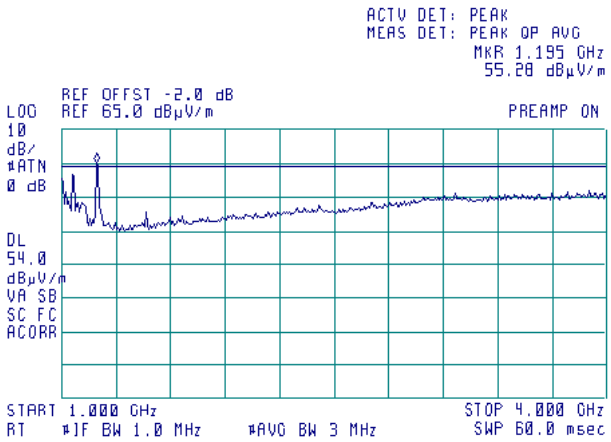
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

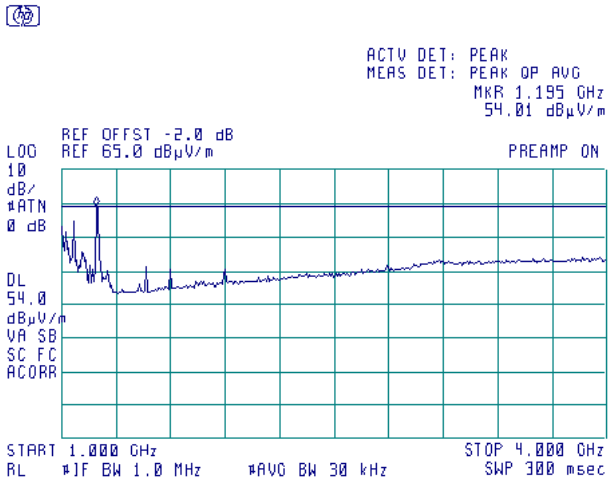
Plot 7.3.57 Radiated emission measurements from 1.0 to 4.0 GHz at the low carrier frequency

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



Plot 7.3.58 Radiated emission measurements from 1.0 to 4.0 GHz at the low carrier frequency

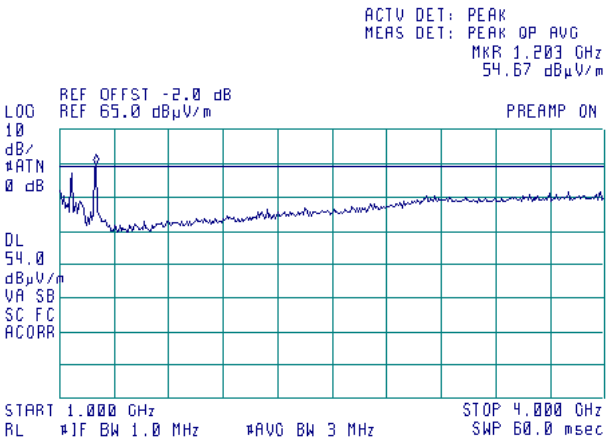
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

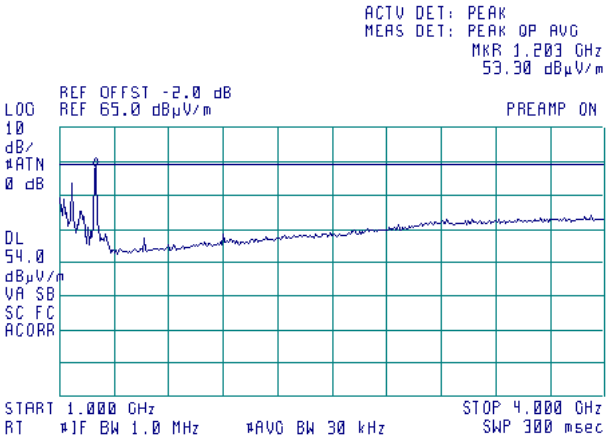
Plot 7.3.59 Radiated emission measurements from 1.0 to 4.0 GHz at the first mid carrier frequency

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



Plot 7.3.60 Radiated emission measurements from 1.0 to 4.0 GHz at the first mid carrier frequency

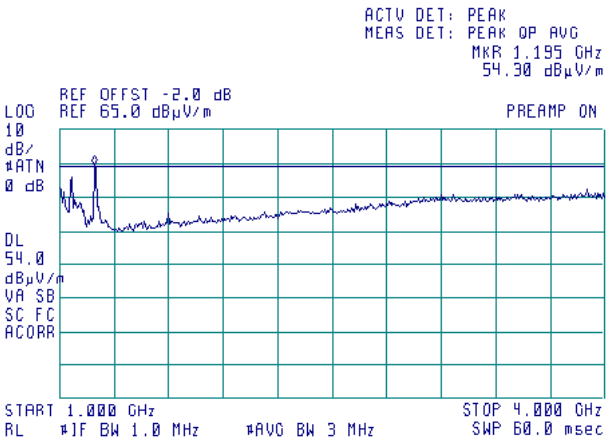
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

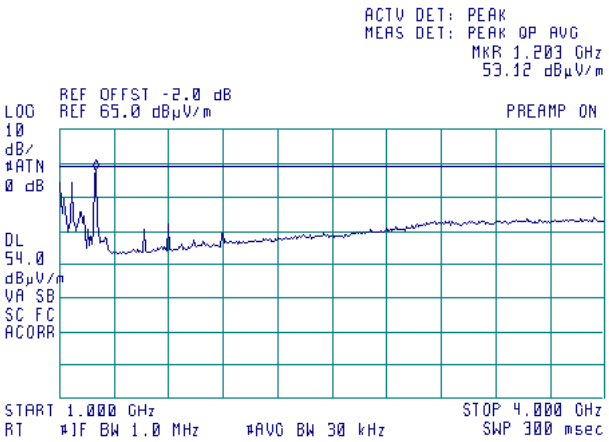
Plot 7.3.61 Radiated emission measurements from 1.0 to 4.0 GHz at the second mid carrier frequency

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



Plot 7.3.62 Radiated emission measurements from 1.0 to 4.0 GHz at the second mid carrier frequency

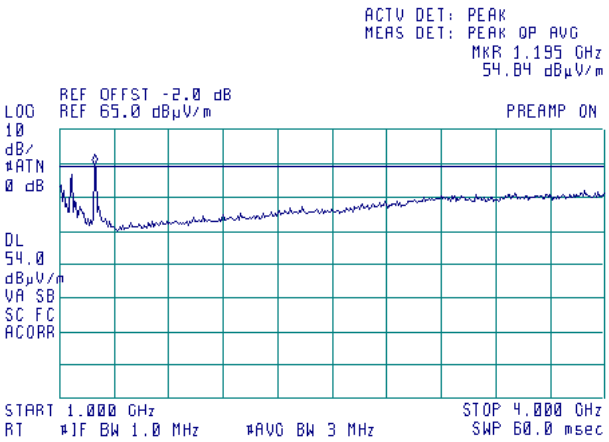
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

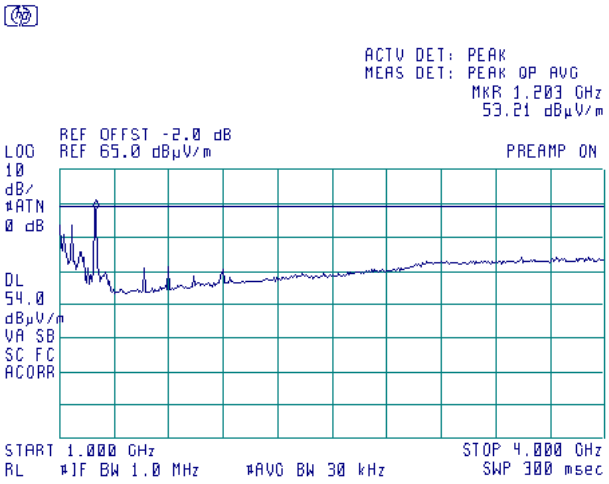
Plot 7.3.63 Radiated emission measurements from 1.0 to 4.0 GHz at the high carrier frequency

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



Plot 7.3.64 Radiated emission measurements from 1.0 to 4.0 GHz at the high carrier frequency

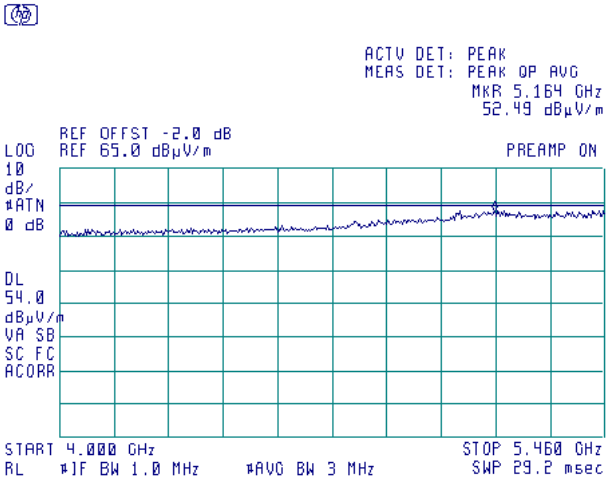
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

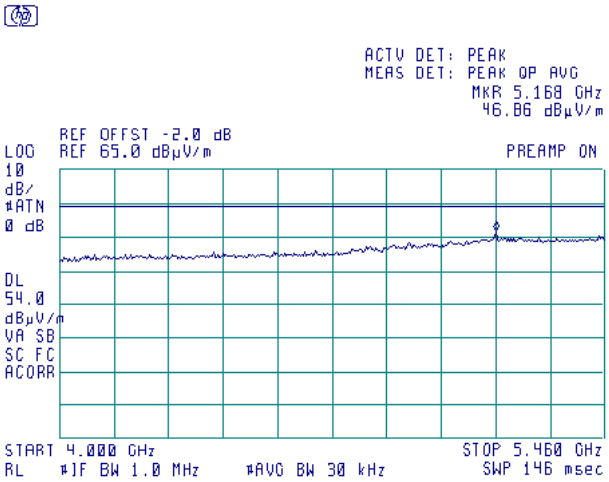
Plot 7.3.65 Radiated emission measurements from 4.0 to 5.46 GHz at the low carrier frequency

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



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

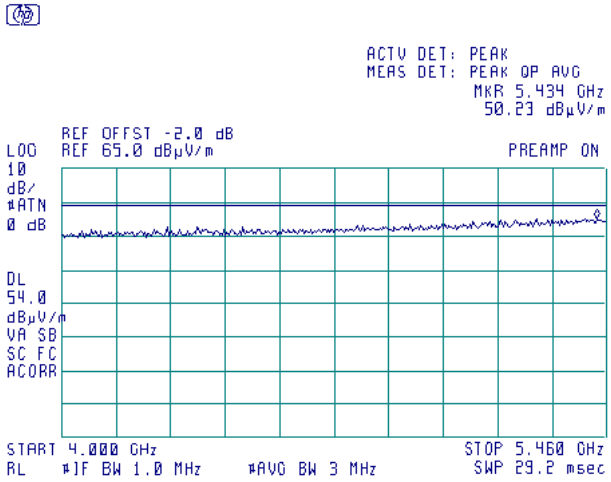
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

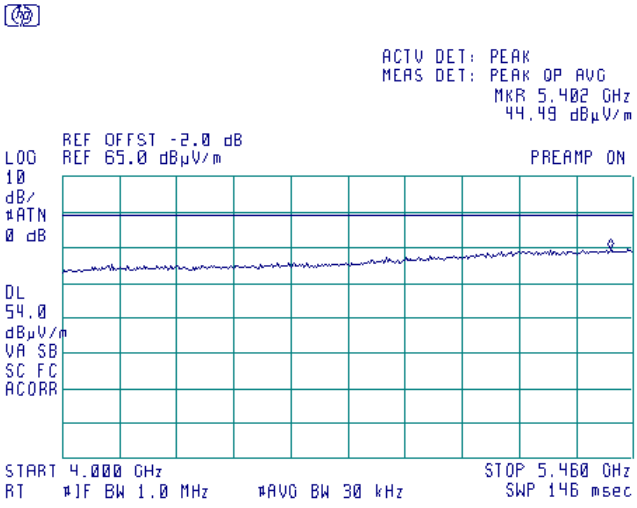
Plot 7.3.67 Radiated emission measurements from 4.0 to 5.46 GHz at the first mid carrier frequency

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



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

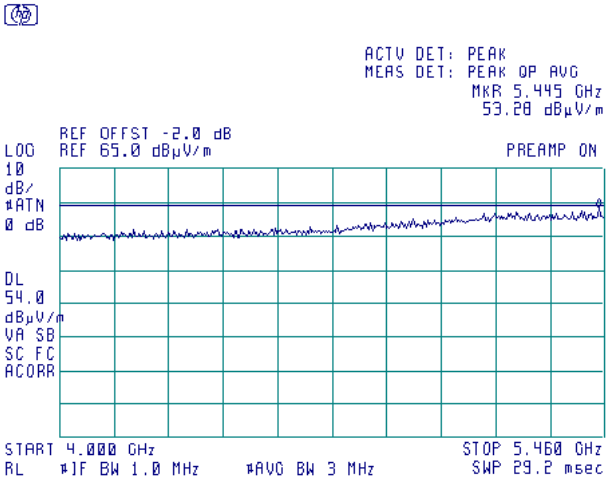
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

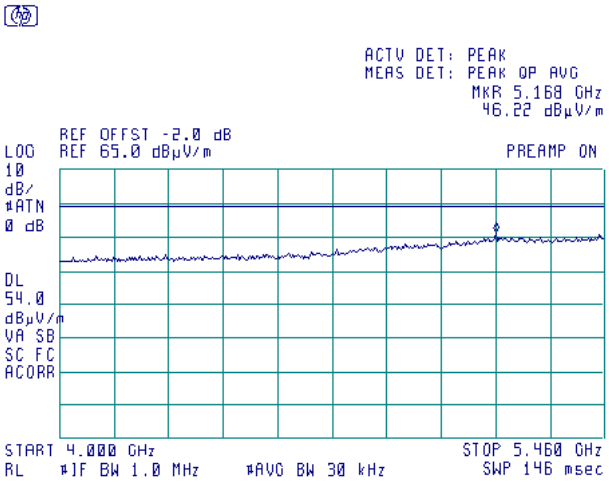
Plot 7.3.69 Radiated emission measurements from 4.0 to 5.46 GHz at the second mid carrier frequency

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



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

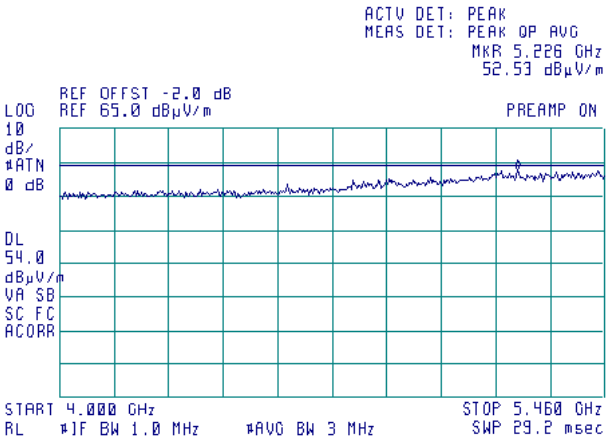
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

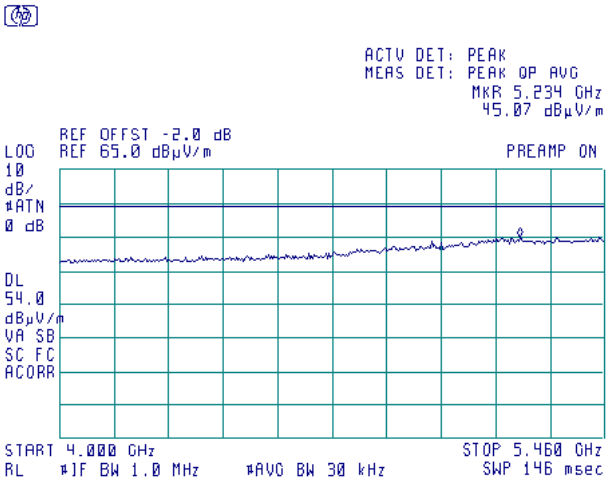
Plot 7.3.71 Radiated emission measurements from 4.0 to 5.46 GHz at the high carrier frequency

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



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

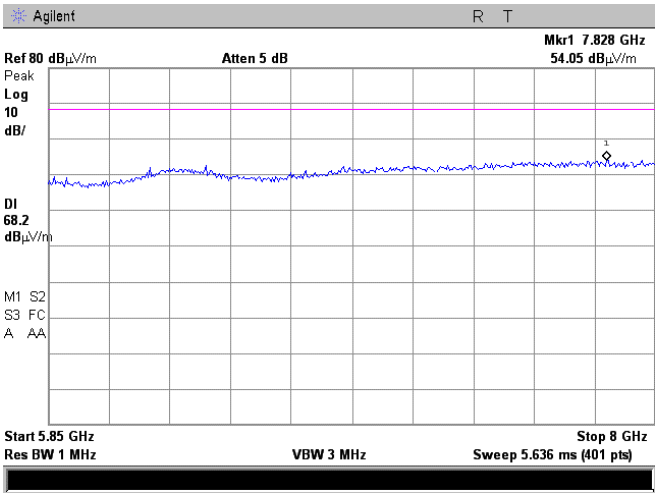
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

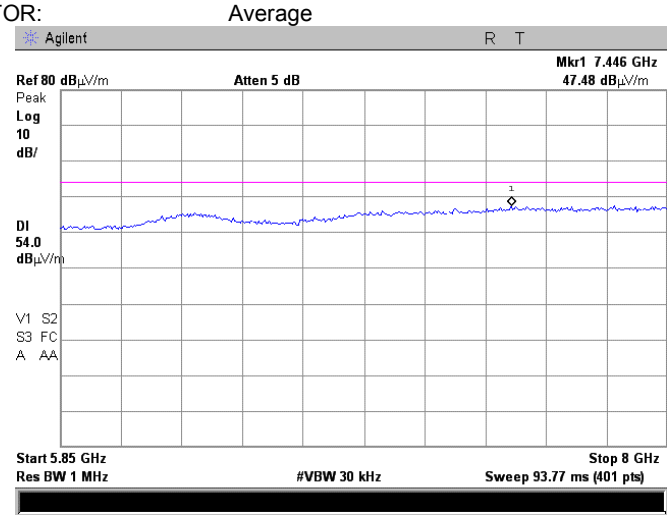
Plot 7.3.73 Radiated emission measurements from 5.85 to 8.0 GHz at the low carrier frequency

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



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

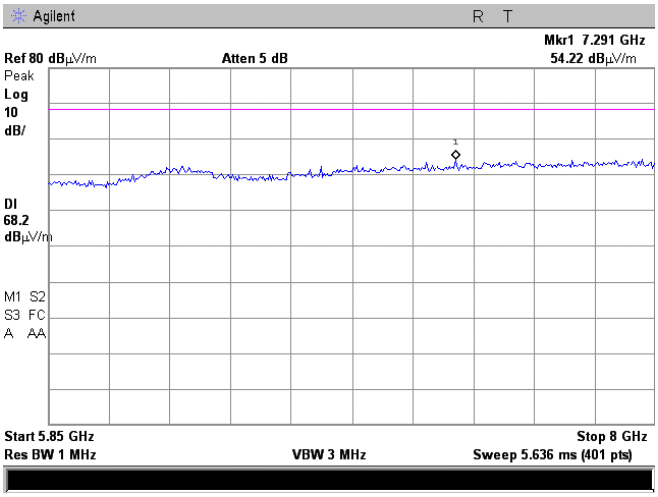
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

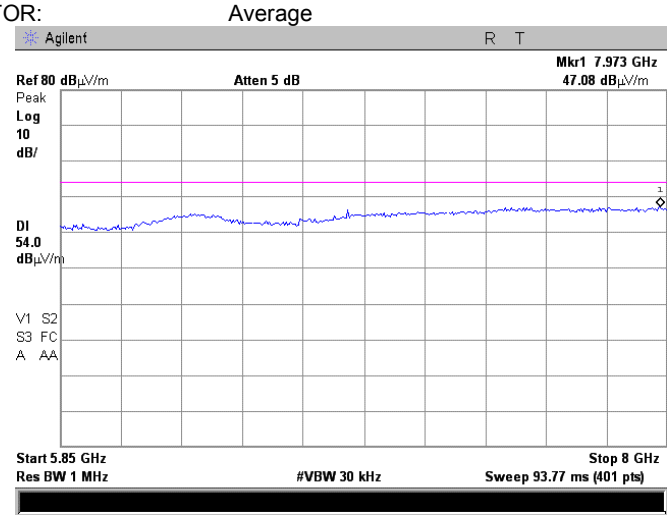
Plot 7.3.75 Radiated emission measurements from 5.85 to 8.0 GHz at the first mid carrier frequency

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



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

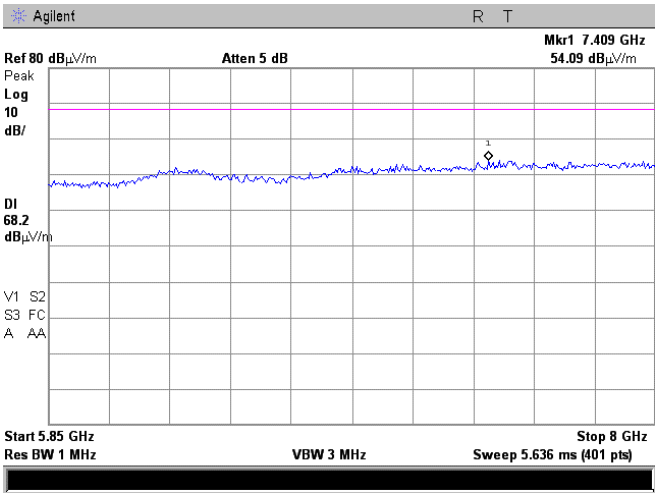
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

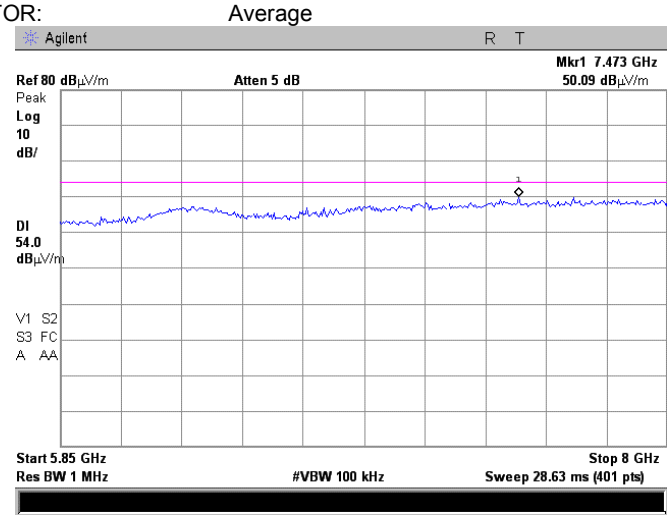
Plot 7.3.77 Radiated emission measurements from 5.85 to 8.0 GHz at the second mid carrier frequency

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



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

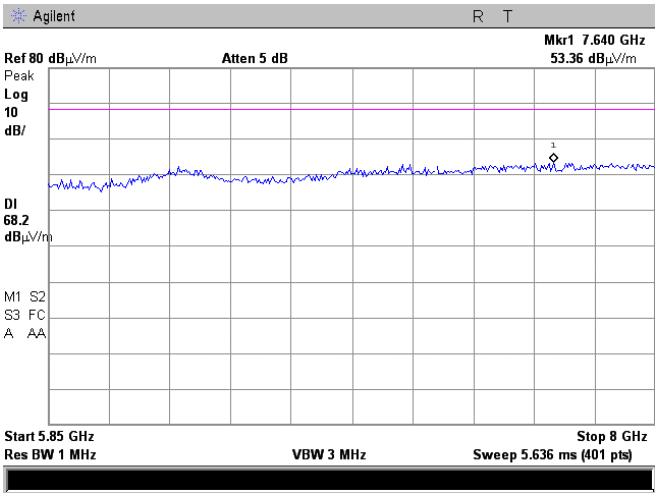
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	6/22/2008		
Temperature: 24ºC	Air Pressure: 1009 hPa	Relative Humidity: 58 %	Power Supply: 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

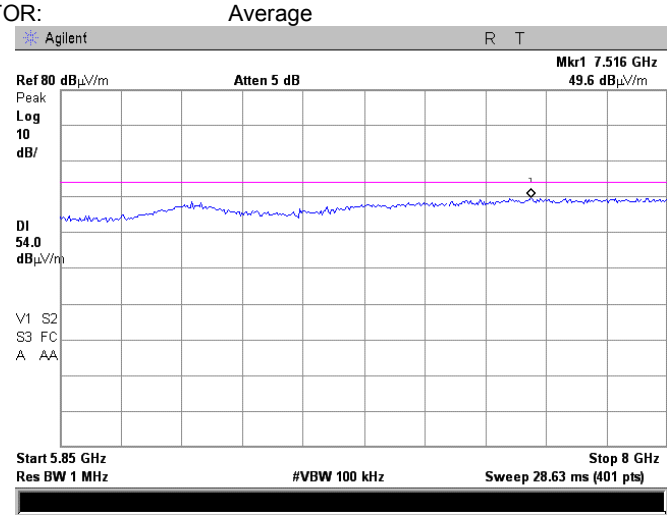
Plot 7.3.79 Radiated emission measurements from 5.85 to 8.0 GHz at the high carrier frequency

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



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

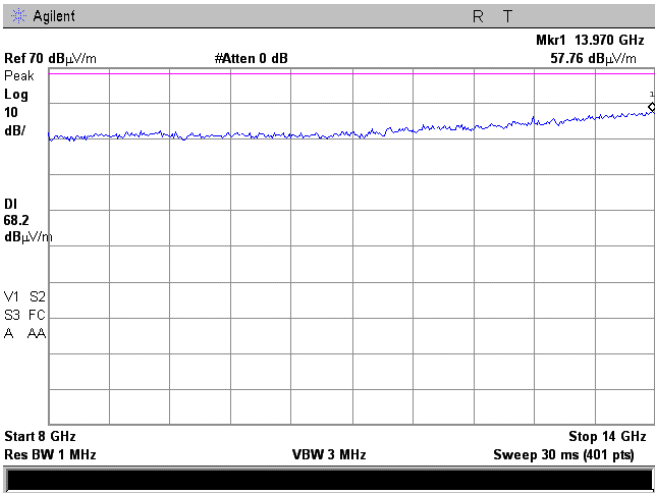
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

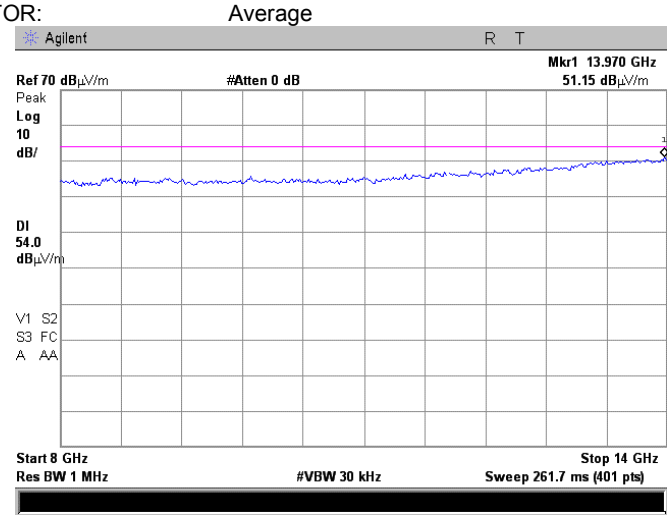
Plot 7.3.81 Radiated emission measurements from 8 to 14 GHz at the low carrier frequency

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



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

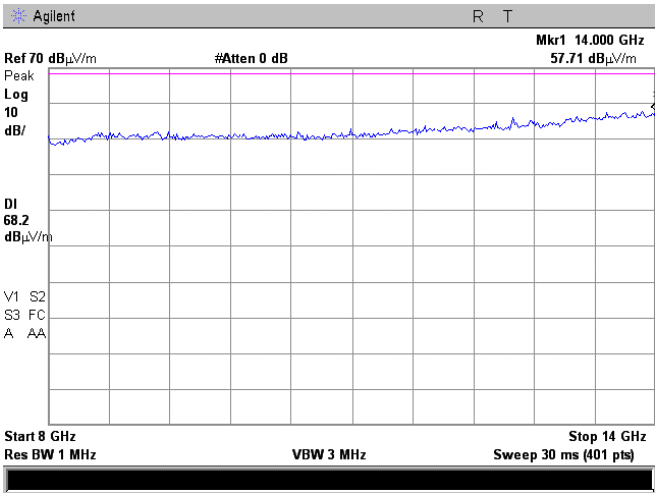
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

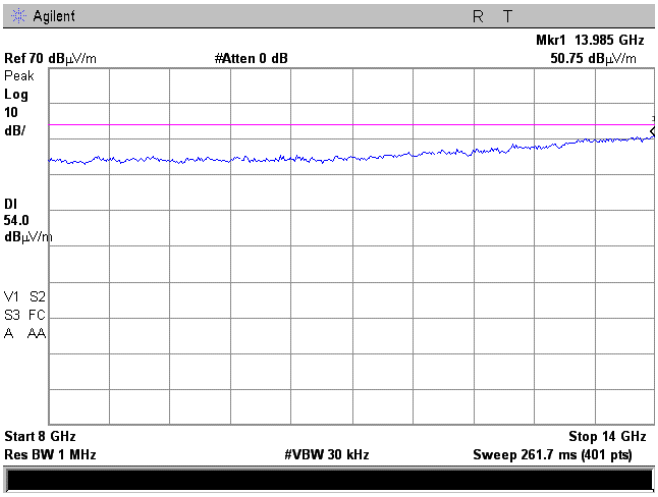
Plot 7.3.83 Radiated emission measurements from 8 to 14 GHz at the first mid carrier frequency

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



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

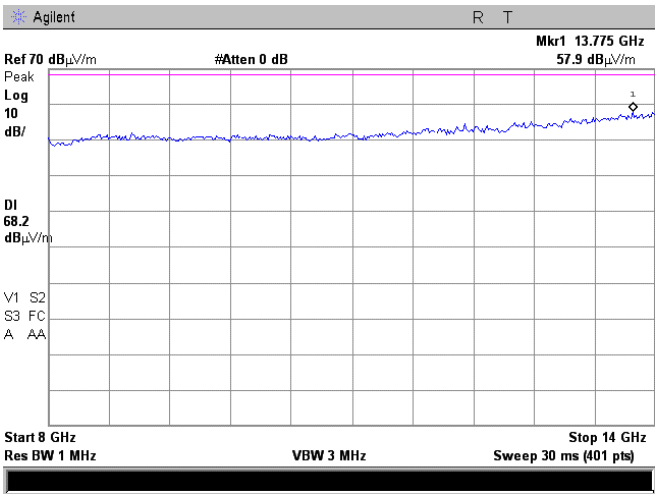
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

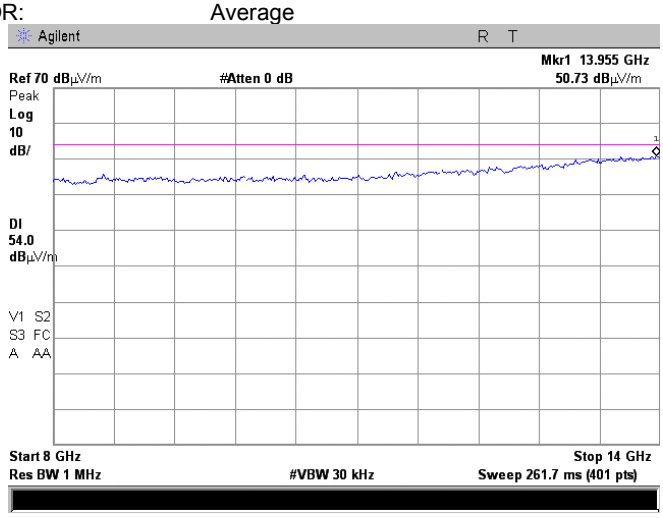
Plot 7.3.85 Radiated emission measurements from 8 to 14 GHz at the second mid carrier frequency

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



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

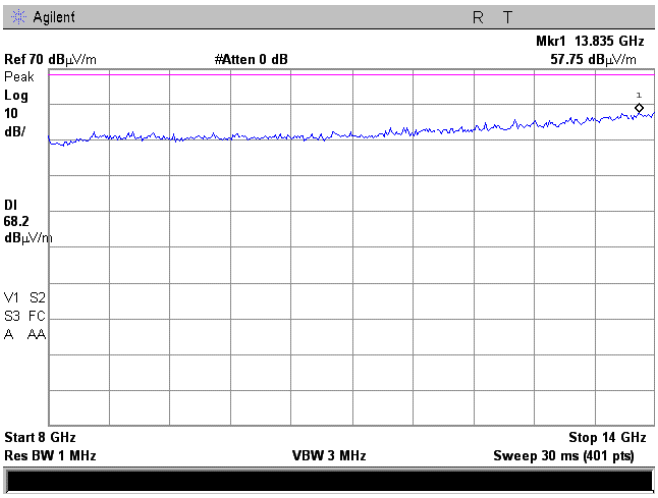
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

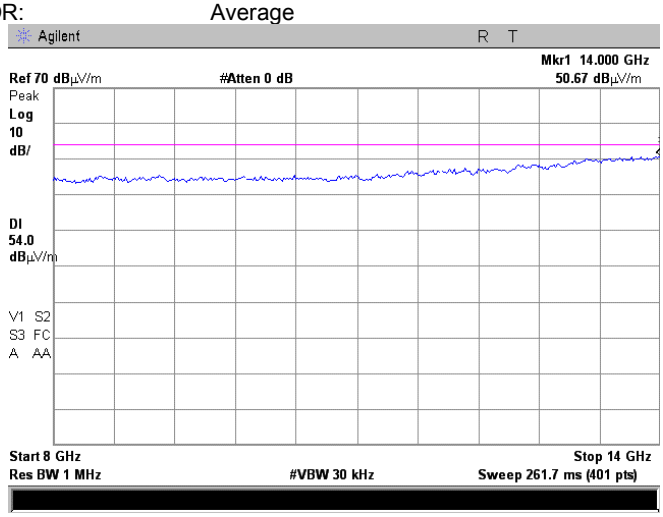
Plot 7.3.87 Radiated emission measurements from 8 to 14 GHz at the high carrier frequency

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



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

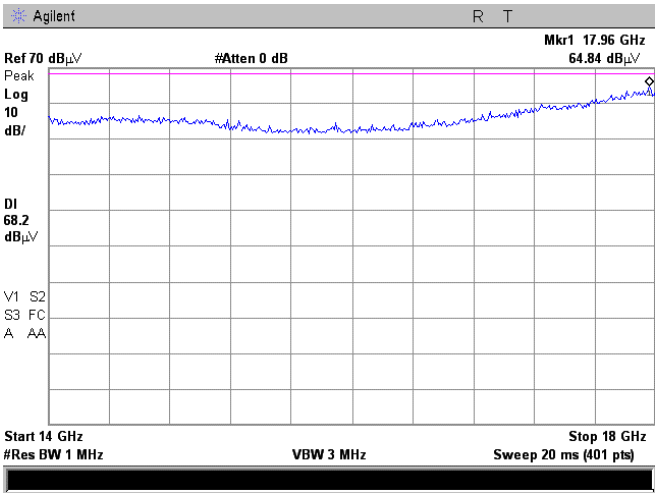
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

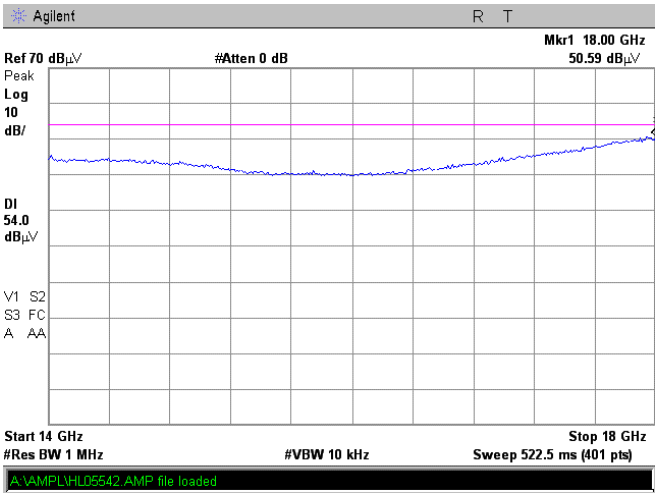
Plot 7.3.89 Radiated emission measurements from 14 to 18 GHz at the low carrier frequency

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



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

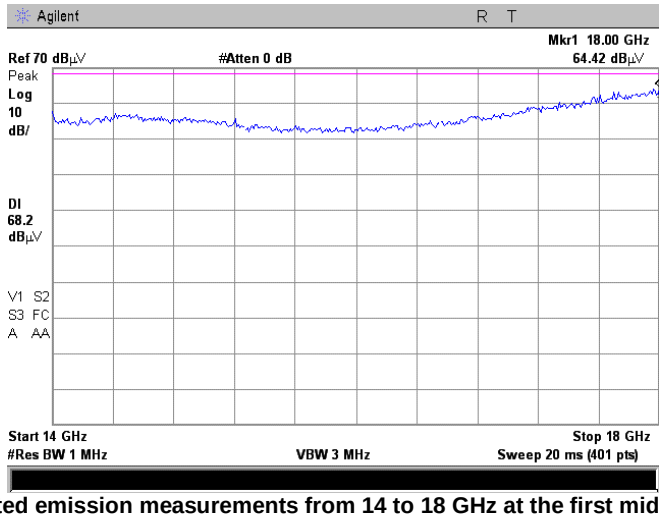
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

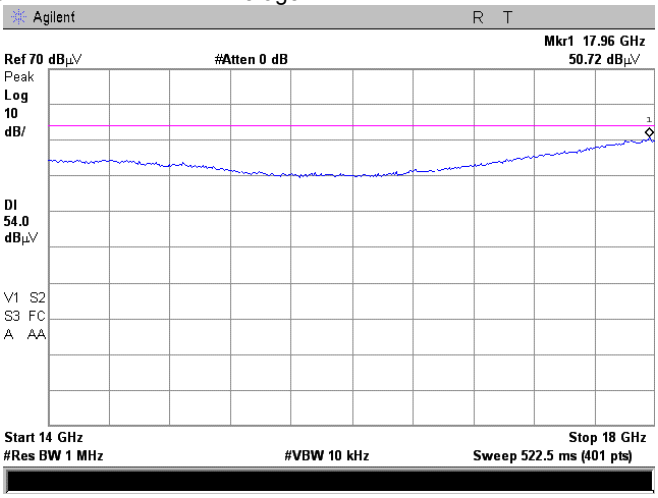
Plot 7.3.91 Radiated emission measurements from 14 to 18 GHz at the first mid carrier frequency

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



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

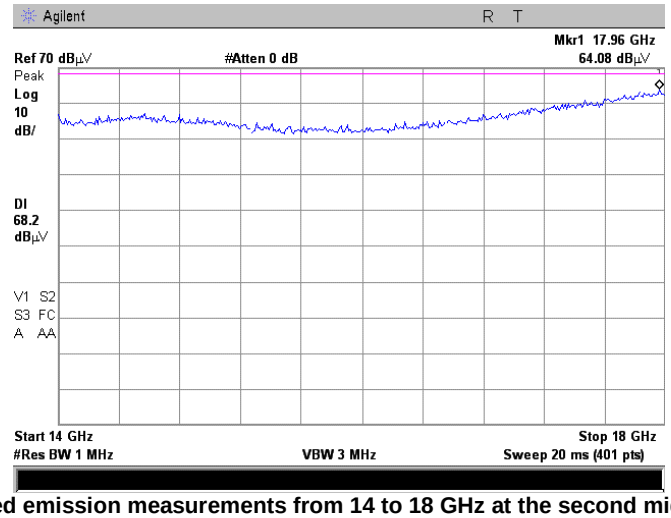
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

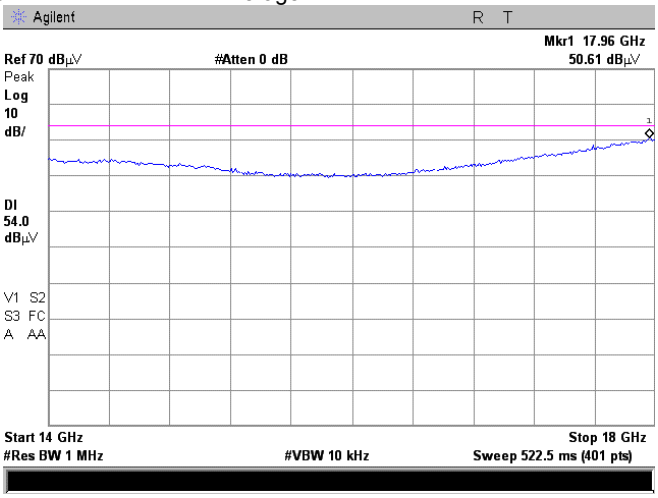
Plot 7.3.93 Radiated emission measurements from 14 to 18 GHz at the second mid carrier frequency

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



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

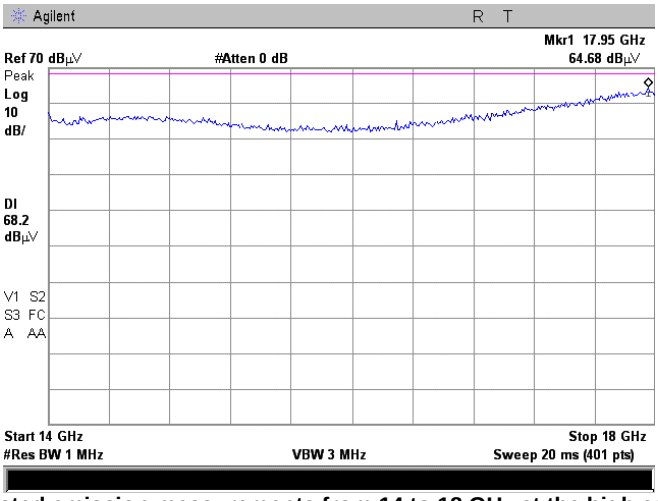
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

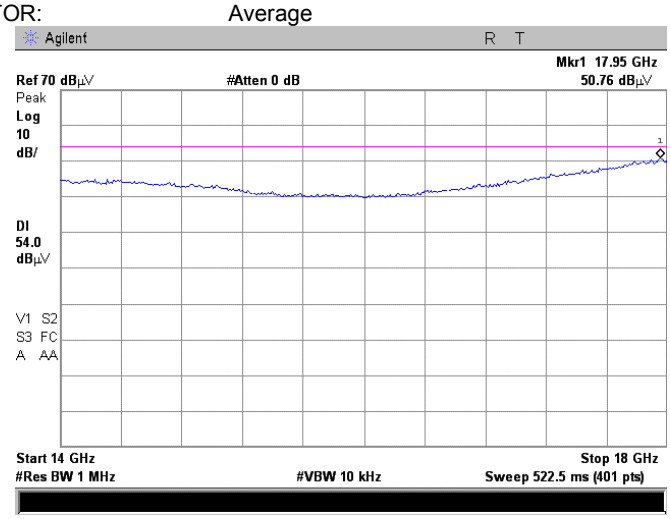
Plot 7.3.95 Radiated emission measurements from 14 to 18 GHz at the high carrier frequency

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



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

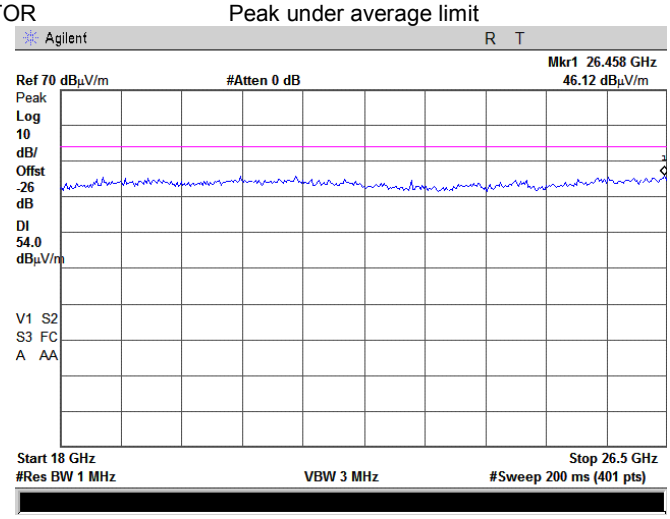
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

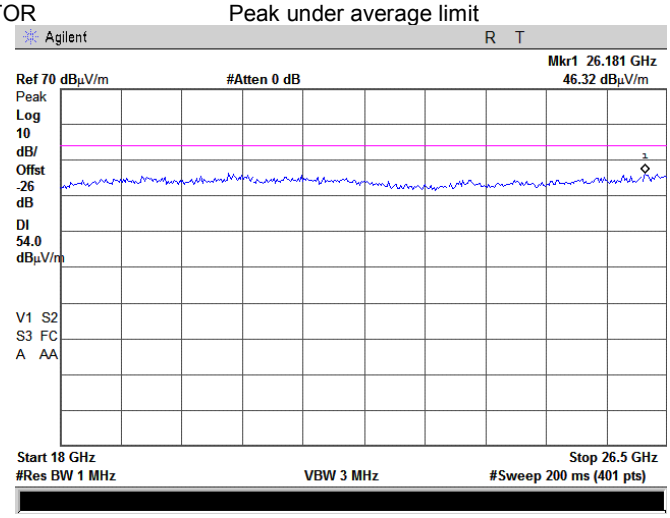
Plot 7.3.97 Radiated emission measurements from 18 to 26.5 GHz at the low carrier frequency

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



Plot 7.3.98 Radiated emission measurements from 18 to 26.5 GHz at the first mid carrier frequency

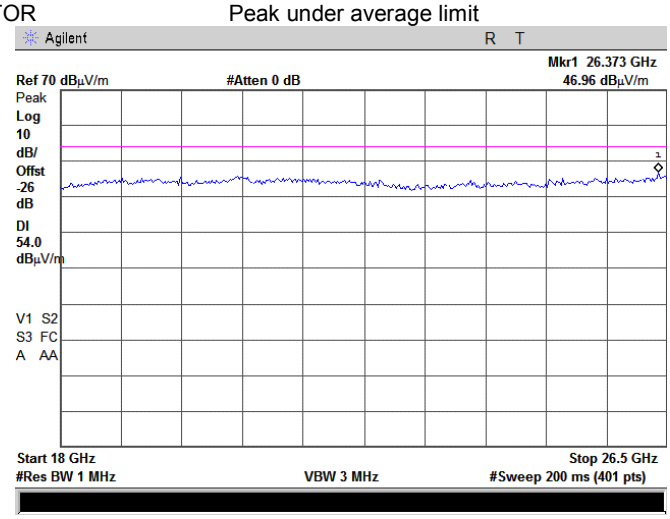
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak under average limit



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

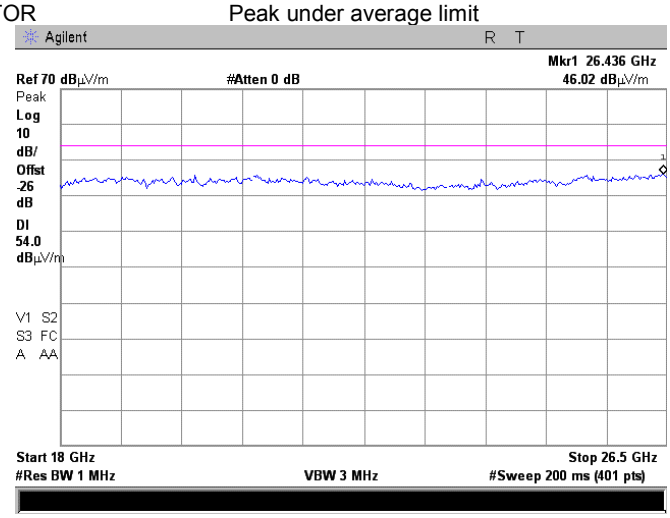
Plot 7.3.99 Radiated emission measurements from 18 to 26.5 GHz at the second mid carrier frequency (5485MHz)

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



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

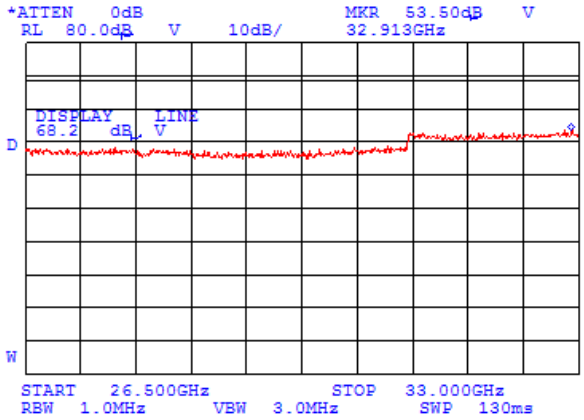
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak under average limit



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

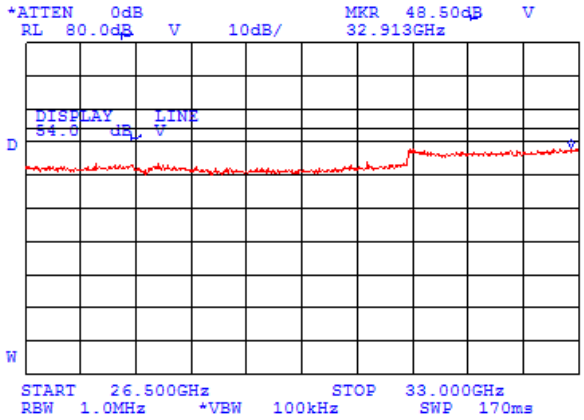
Plot 7.3.101 Radiated emission measurements from 26.5 to 33 GHz at the low carrier frequency

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



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

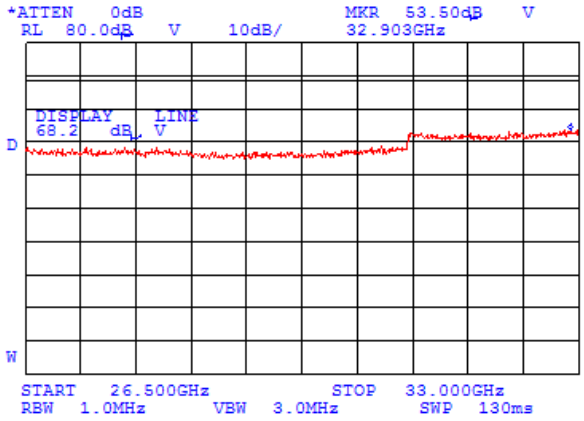
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

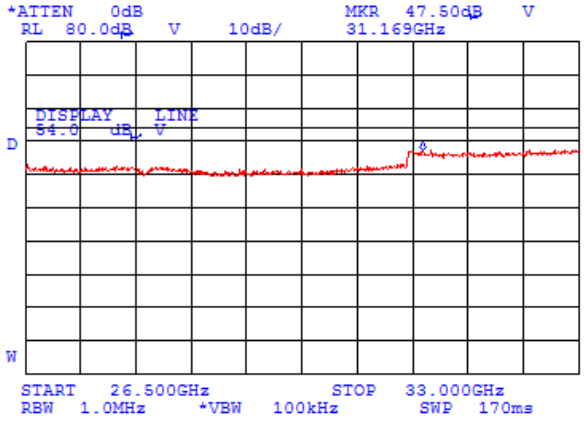
Plot 7.3.103 Radiated emission measurements from 26.5 to 33 GHz at the first mid carrier frequency

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



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

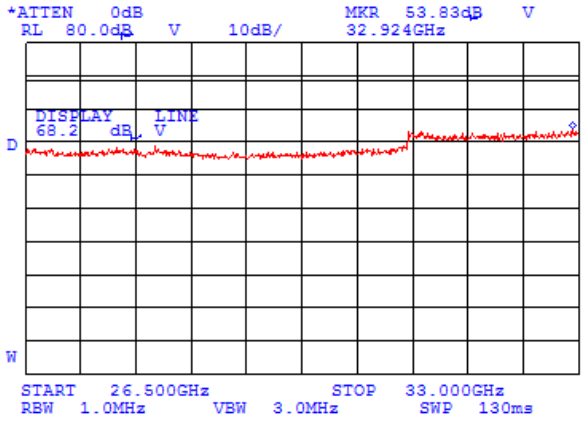
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

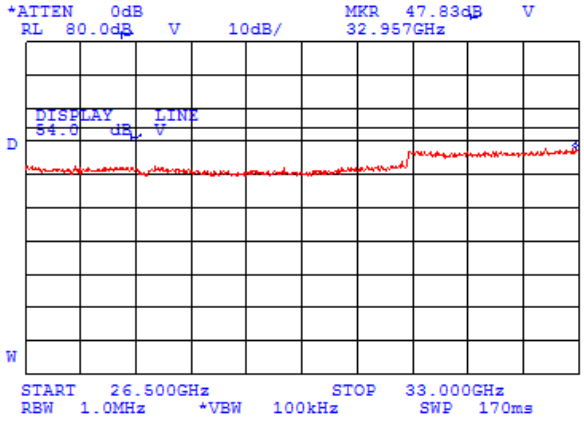
Plot 7.3.105 Radiated emission measurements from 26.5 to 33 GHz at the second mid carrier frequency

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



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

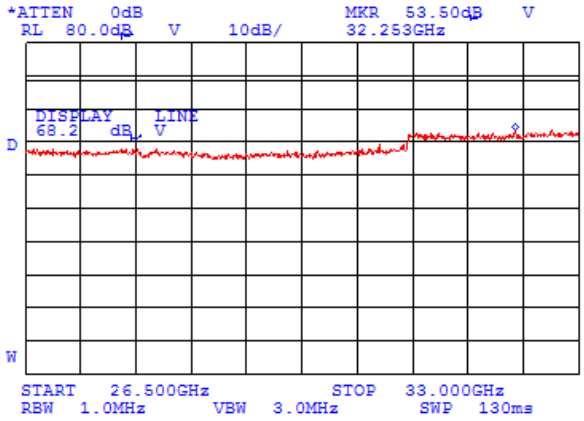
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

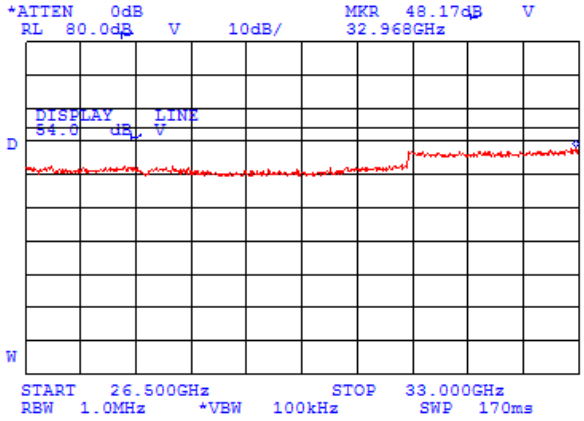
Plot 7.3.107 Radiated emission measurements from 26.5 to 33 GHz at the high carrier frequency

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



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

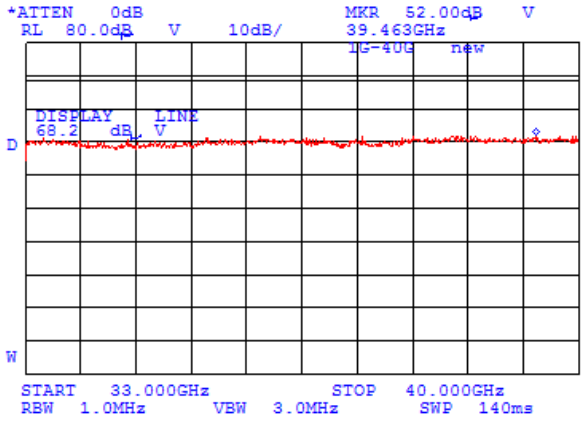
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

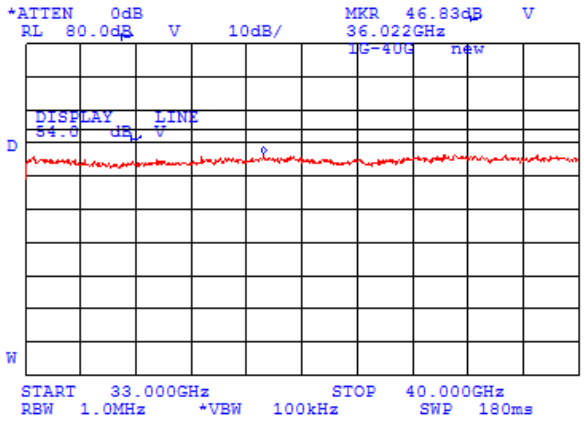
Plot 7.3.109 Radiated emission measurements from 33 to 40 GHz at the low carrier frequency

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



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

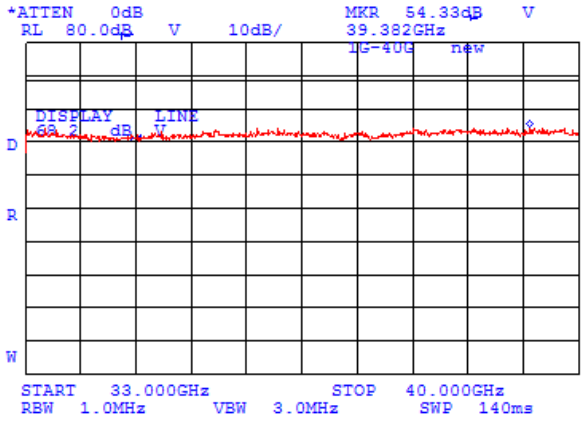
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

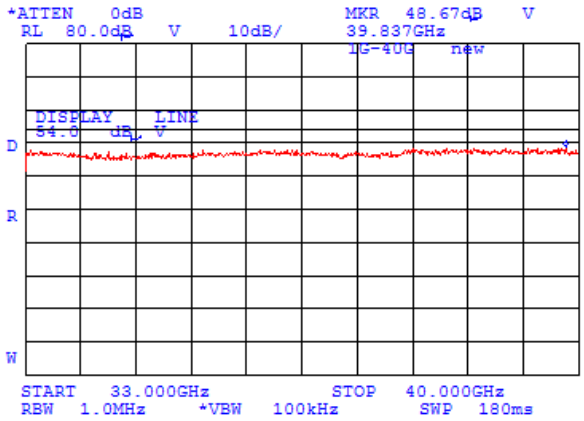
Plot 7.3.111 Radiated emission measurements from 33 to 40 GHz at the first mid carrier frequency

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



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

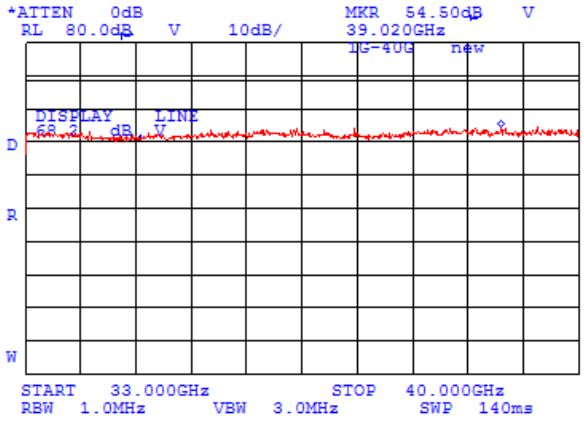
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.3** **Unwanted radiated emissions**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

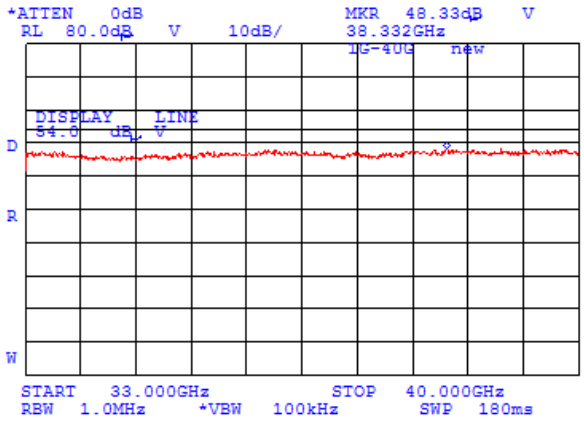
Plot 7.3.113 Radiated emission measurements from 33 to 40 GHz at the second mid carrier frequency

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



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

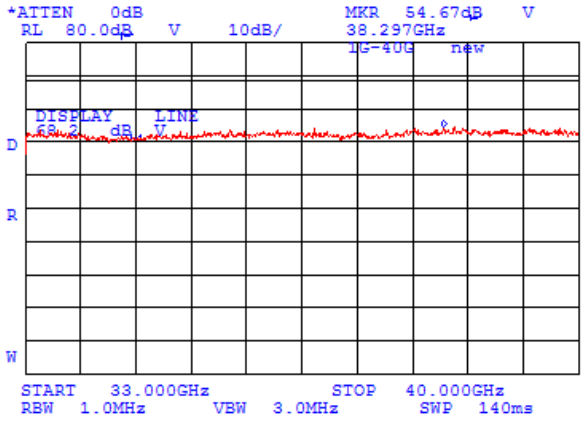
TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/22/2008		
Temperature: 24ºC	**Air Pressure:** 1009 hPa	**Relative Humidity:** 58 %	**Power Supply:** 120 VAC
Remarks: EUT with 28 dBi antenna assembly gain			

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

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



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

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