HERMON LABORATORIES

839.01
Electrical

Hermon Laboratories Ltd.
P.O.Box 23, Binyamina 30500, Israel
Tel. +972 4628 8001
Fax. +972 4628 8277
E-mail: mail@hermonlabs.com

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 5.3 GHz band

Model: F54/FCC/CMB/INT, F54/IC/CMB/INT, F54/FCC/CMB/EXT, F54/IC/CMB/EXT

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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 the 5.3 GHz band
Product type:	Point to point transceiver
Model(s):	F54/FCC/CMB/INT, F54/IC/CMB/INT, F54/FCC/CMB/EXT, F54/IC/CMB/EXT
Receipt date	4/07/2008

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:	18686
Location:	Hermon Laboratories Ltd. P.O.Box 23, Binyamina 30500, Israel
Test started:	4/07/2008
Test completed:	8/13/2008
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(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

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	August 13, 2008	
Reviewed by:	Mrs. M. Cherniavsky, certification engineer	September 14, 2008	
Approved by:	Mr. M. Nikishin, EMC and radio group manager	September 16, 2008	

6 EUT description

6.1 General information

The EUT is an outdoor unit radio unit. The EUT provides high capacity connectivity of up to 54 Mbps. The ODU may be used with integral or external antenna.

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
RF	Antenna	EUT	antenna	N-type	1	shielded	1	Outdoor*
Signal	DC+ Ethernet	IDU	EUT	RJ45	1	shielded	20	Outdoor
Signal	Sync	EUT	Laptop	RJ45	1	unshielded	1.5	Indoor**
Signal	Ethernet	IDU	Laptop	RJ45	1	FTP	20	Indoor

* - for external antenna configuration only, 1 dB loss
** - for configuration prior the test

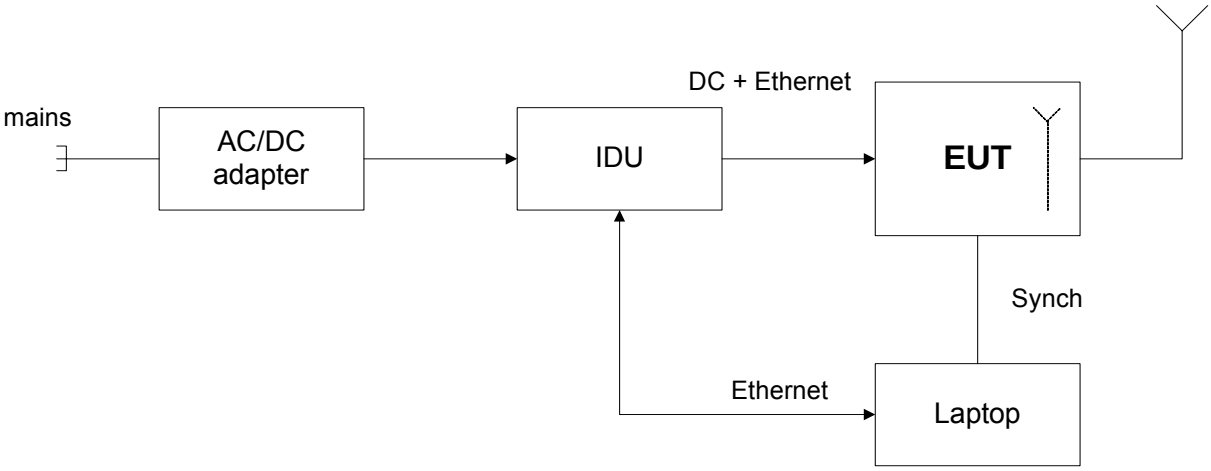
6.3 Support and test equipment

Description	Manufacturer	Model number	Serial number
Laptop	Dell	Latitude/D530	NA
IDU (for configuration with ODU)	RadWin Ltd.	IDU-E	DE2E2000123
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	5250 - 5350 MHz				
Operating frequency range	5255 - 5345 MHz				
Maximum rated output power	**Average (conducted)**	1.3 dBm with integral antenna 3 dBm with external antenna			
	Peak (conducted)	13.63 dBm with integral antenna 13.55 dBm with external antenna			
	Software power settings	8 dBm with integral antenna			
		9 dBm with external 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 (integral)	SmartAnt Telecom Co. Ltd.	ALA06-200350	22 dBi
Planar Array (external)	MTI Ltd.	MT – 485045/N	22 dBi

Transmitter 99% power bandwidth	**Transmitter aggregate data rate/s, MBps**	**Type of modulation (OFDM)**
5 MHz	1.5; 2.25 3; 4.5 6; 9 12; 13.5	BPSK QPSK 16QAM 64QAM
10 MHz	3, 4.5 6; 9 12; 18 24; 27	BPSK QPSK 16QAM 64QAM
20 MHz	6; 9 12; 18 24; 36 48; 54	BPSK QPSK 16QAM 64QAM

Type of multiplexing	NA
Modulating test signal (baseband)	NA
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	5255	5300	5345
10	5257.5	5300	5340
20	5262.5	5300	5332.5

Test specification:	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:	6/15/2008		
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
5250 - 5350	The lesser of 250 mW or 11 dBm +10 log B**	11.0	1.0

*Note 1: due to 22 dBi antenna gain the limits of peak output power and peak power spectral density shall be reduced by 16 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.

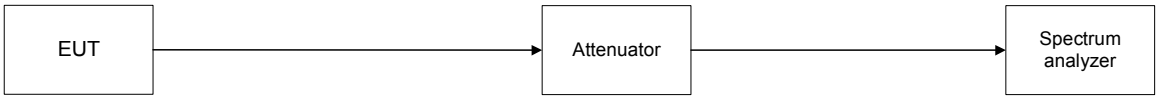
7.1.2.3 The measurements were performed in continuous transmission mode of operation for carrier (channel) frequencies at low and high edges and at the middle of the frequency range shown in Table 7.1.1. The transmitter 26 dB bandwidth was measured with spectrum analyzer as frequency delta between reference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

Figure 7.1.1 Peak output power test setup



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks:			

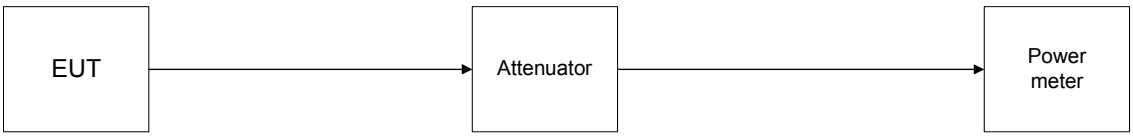
7.1.3 Test procedure for measurements with power meter

7.1.3.1 The EUT was set up as shown in Figure 7.1.2, energized and its proper operation was checked.

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

7.1.3.3 The peak output power was measured with thermocouple power meter as provided in Table 7.1.3, Table 7.1.5.

Figure 7.1.2 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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Table 7.1.2 Average output power and peak power density test results

ASSIGNED FREQUENCY: 5250 - 5350 MHz
TRANSMITTER OUTPUT POWER SETTINGS: "2 dBm" at 5 MHz channel bandwidth
"5 dBm" at 10 MHz channel bandwidth
"8 dBm" at 20 MHz channel bandwidth
DETECTOR USED: Sample
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz
METHOD OF POWER MEASUREMENTS: 1
METHOD OF POWER DENSITY MEASUREMENTS: 2

Frequency, MHz	26 dB bandwidth	Bit rate, MBps	Modulation	Output power			Peak power density			Verdict
				Measured, dBm	Limit, dBm	Margin, dB*	Measured, dBm/MHz	Limit, dBm/MHz	Margin, dB**	
Low channel, CBW 20 MHz										
5262.5	23.20	6	BPSK	0.88	8.00	-7.12	-12.91	-5	-7.91	Pass
5262.5	21.60	18	QPSK	1.31	8.00	-6.69	-12.03	-5	-7.03	Pass
5262.5	21.50	24	16QAM	0.71	8.00	-7.29	-12.62	-5	-7.62	Pass
5262.5	23.20	54	64QAM	1.10	8.00	-6.90	-12.55	-5	-7.55	Pass
Low channel, CBW 10 MHz										
5257.5	12.50	3	BPSK	-1.60	5.97	-7.57	-12.63	-5	-7.63	Pass
5257.5	9.60	9	QPSK	0.45	4.82	-4.37	-9.37	-5	-4.37	Pass
5257.5	9.64	12	16QAM	0.23	4.84	-4.61	-9.61	-5	-4.61	Pass
5257.5	9.53	27	64QAM	-0.15	4.79	-4.94	-9.94	-5	-4.94	Pass
Low channel, CBW 5 MHz										
5255	6.25	1.5	BPSK	-4.40	2.96	-7.36	-12.35	-5	-7.35	Pass
5255	4.88	4.5	QPSK	-3.65	1.89	-5.54	-10.54	-5	-5.54	Pass
5255	5.06	6.0	16QAM	-3.76	2.04	-5.80	-10.80	-5	-5.8	Pass
5255	4.83	13.5	64QAM	-3.83	1.84	-5.67	-10.67	-5	-5.67	Pass
Mid channel, CBW 20 MHz										
5300	23.40	6	BPSK	0.21	8.00	-7.79	-13.48	-5	-8.48	Pass
5300	21.90	18	QPSK	1.15	8.00	-6.85	-12.26	-5	-7.26	Pass
5300	21.60	24	16QAM	1.03	8.00	-6.97	-12.31	-5	-7.31	Pass
5300	23.10	54	64QAM	0.95	8.00	-7.05	-12.69	-5	-7.69	Pass
Mid channel, CBW 10 MHz										
5300	12.11	3	BPSK	-3.07	5.83	-8.90	-13.91	-5	-8.91	Pass
5300	9.68	9	QPSK	-0.97	4.86	-5.83	-10.83	-5	-5.83	Pass
5300	9.71	12	16QAM	-1.08	4.87	-5.95	-10.95	-5	-5.95	Pass
5300	9.49	27	64QAM	-1.44	4.77	-6.21	-11.21	-5	-6.21	Pass
Mid channel, CBW 5 MHz										
5300	6.14	1.5	BPSK	-5.80	2.88	-8.68	-13.68	-5	-8.68	Pass
5300	4.92	4.5	QPSK	-5.05	1.92	-6.97	-11.97	-5	-6.97	Pass
5300	4.94	6.0	16QAM	-5.17	1.94	-7.11	-12.11	-5	-7.11	Pass
5300	4.86	13.5	64QAM	-5.07	1.87	-6.94	-11.93	-5	-6.93	Pass

Note 1: due to 22 dBi antenna gain the limits of peak output power and peak power spectral density shall be reduced by 16 dB
Note 2: Measurement plots are in dBm/Hz, in order to convert to dBm/MHz a 60dB factor was added
* - Margin = Measured output power – specification limit
** - Margin = Measured peak power density – specification limit.

Test specification:	**FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density**		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Table 7.1.2 Average output power and peak power density test results (continued)

Frequency, MHz	26 dB bandwidth	Bit rate, MBps	Modulation	Output power			Peak power density			Verdict
				Measured, dBm	Limit, dBm	Margin, dB*	Measured, dBm/MHz	Limit, dBm/MHz	Margin, dB**	
High channel, CBW 20 MHz										
5332.5	23.00	6	BPSK	0.70	8.00	-7.3	-12.92	-5	-7.92	Pass
5332.5	21.90	18	QPSK	1.17	8.00	-6.83	-12.23	-5	-7.23	Pass
5332.5	21.80	24	16QAM	1.09	8.00	-6.91	-12.29	-5	-7.29	Pass
5332.5	23.40	54	64QAM	0.60	8.00	-7.40	-13.09	-5	-8.09	Pass
High channel, CBW 10 MHz										
5340	12.11	3	BPSK	-3.75	5.83	-9.58	-14.58	-5	-9.58	Pass
5340	9.68	9	QPSK	-0.94	4.86	-5.80	-10.79	-5	-5.79	Pass
5340	9.60	12	16QAM	-1.13	4.82	-5.95	-10.95	-5	-5.95	Pass
5340	9.45	27	64QAM	-1.60	4.75	-6.35	-11.36	-5	-6.36	Pass
High channel, CBW 5 MHz										
5345	6.09	1.5	BPSK	-5.85	2.85	-8.70	-13.69	-5	-8.69	Pass
5345	4.94	4.5	QPSK	-5.14	1.93	-7.07	-12.07	-5	-7.07	Pass
5345	4.99	6.0	16QAM	-5.25	1.98	-7.23	-12.19	-5	-7.19	Pass
5345	4.87	13.5	64QAM	-5.19	1.87	-7.06	-12.06	-5	-7.06	Pass

Note 1: due to 22 dBi antenna gain the limits of peak output power and peak power spectral density shall be reduced by 16 dB

Note 2: Measurement plots are in dBm/Hz, in order to convert to dBm/MHz a 60dB factor was added

* - Margin = Measured output power – specification limit

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

Reference numbers of test equipment used

HL 2909	HL 3208	HL 3439					

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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Table 7.1.3 Peak output power test results measured with peak power meter

ASSIGNED FREQUENCY: 5250 - 5350 MHz
MODULATING SIGNAL: OFDM
TRANSMITTER OUTPUT POWER SETTINGS: "2 dBm" at 5 MHz channel bandwidth, "5 dBm" at 10 MHz channel bandwidth; "8 dBm" at 20 MHz channel bandwidth
DETECTOR USED: Peak
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz

Frequency, MHz	Bit rate, Mbps	Modulation	Power meter reading, dBm	Feeder loss, dB	Peak output power, dBm
Low channel					
5262.5	6	BPSK	13.55	0	13.55
5262.5	18	QPSK	12.78	0	12.78
5262.5	24	16QAM	13.63	0	13.63
5262.5	54	64QAM	13.10	0	13.10
5257.5	3	BPSK	12.13	0	12.13
5257.5	9	QPSK	11.22	0	11.22
5257.5	12	16QAM	12.13	0	12.13
5257.5	27	64QAM	11.63	0	11.63
5255	1.5	BPSK	8.59	0	8.59
5255	4.5	QPSK	7.70	0	7.70
5255	6	16QAM	8.69	0	8.69
5255	13.5	64QAM	8.45	0	8.45
Mid channel					
5300	6	BPSK	12.42	0	12.42
5300	18	QPSK	12.45	0	12.45
5300	24	16QAM	13.30	0	13.30
5300	54	64QAM	12.55	0	12.55
5300	3	BPSK	11.55	0	11.55
5300	9	QPSK	10.81	0	10.81
5300	12	16QAM	11.64	0	11.64
5300	27	64QAM	11.08	0	11.08
5300	1.5	BPSK	8.52	0	8.52
5300	4.5	QPSK	7.17	0	7.17
5300	6	16QAM	8.07	0	8.07
5300	13.5	64QAM	7.46	0	7.46
High channel					
5332.5	6	BPSK	11.75	0	11.75
5332.5	18	QPSK	12.00	0	12.00
5332.5	24	16QAM	12.90	0	12.90
5332.5	54	64QAM	12.62	0	12.62
5340	3	BPSK	11.25	0	11.25
5340	9	QPSK	10.48	0	10.48
5340	12	16QAM	11.41	0	11.41
5340	27	64QAM	10.70	0	10.70
5345	1.5	BPSK	7.72	0	7.72
5345	4.5	QPSK	6.85	0	6.85
5345	6	16QAM	7.15	0	7.15
5345	13.5	64QAM	7.12	0	7.12

Reference numbers of test equipment used

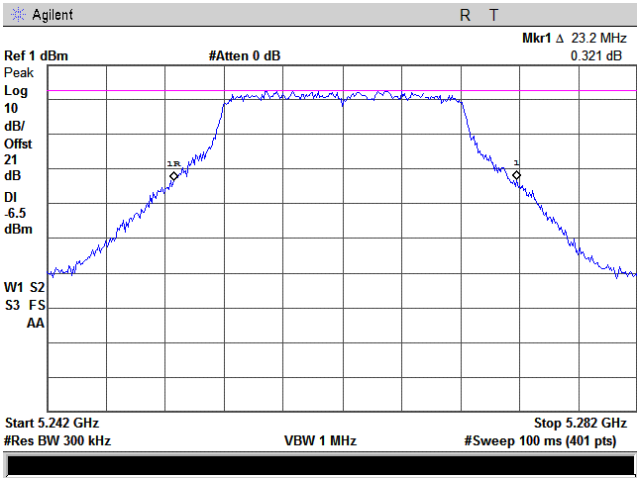
HL 2909	HL 3208	HL 3439					

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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Plot 7.1.1 The 26 dB emission bandwidth

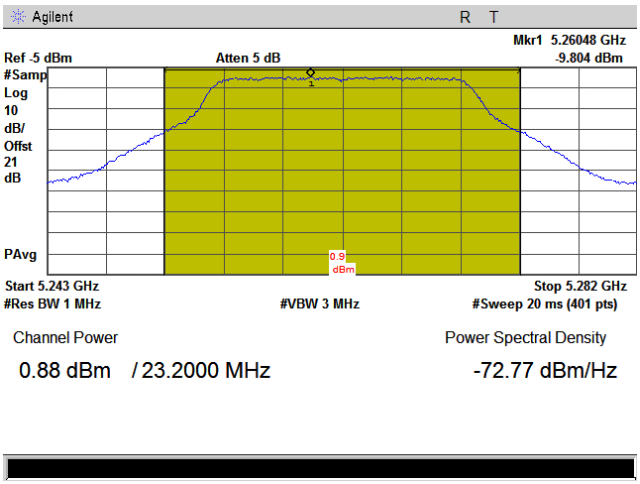
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 6 Mbps



Note: The real center frequency is 5262.5 MHz (SA display limitations)

Plot 7.1.2 Power and power density, low frequency

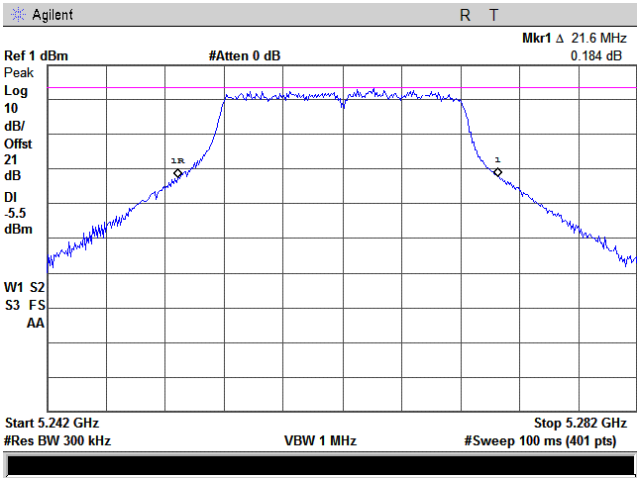
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 6 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Plot 7.1.3 The 26 dB emission bandwidth, low frequency

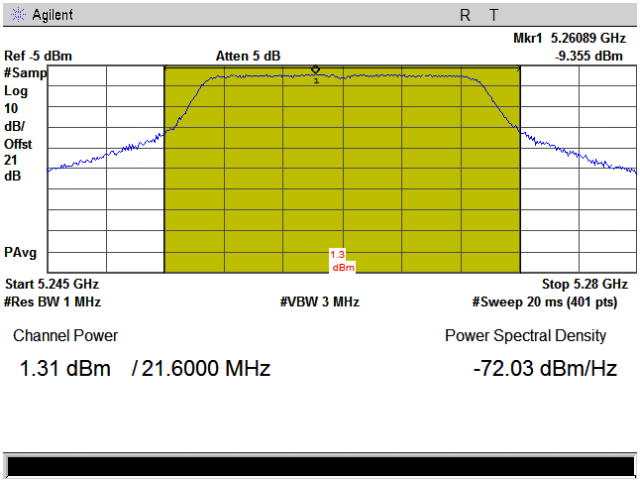
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK, 18 Mbps



Note: The real center frequency is 5262.5 MHz (SA display limitations)

Plot 7.1.4 Power and power density, low frequency

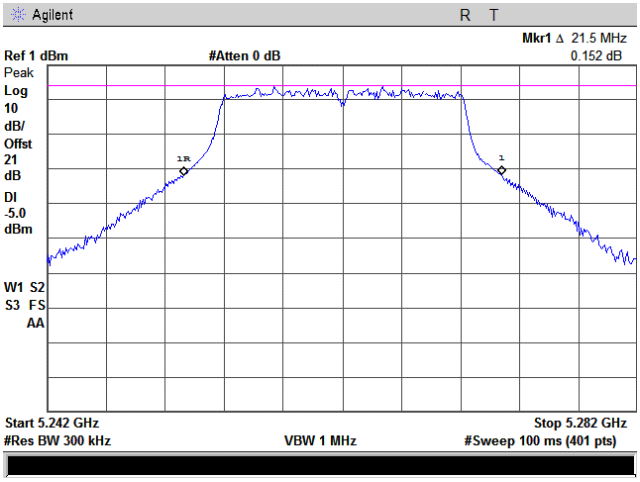
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK, 18 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Plot 7.1.5 The 26 dB emission bandwidth, low frequency

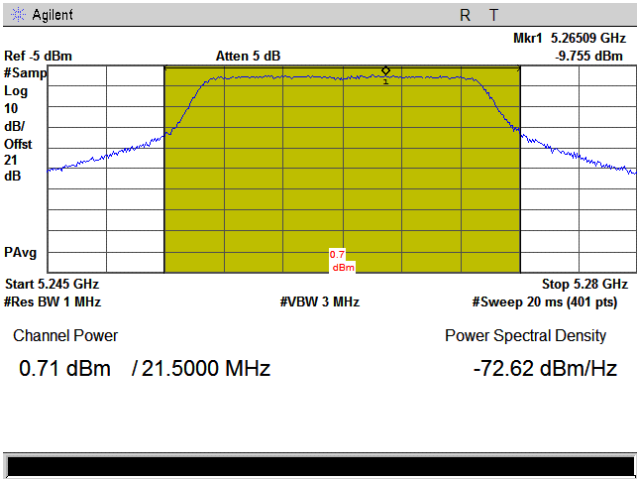
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM, 24 Mbps



Note: The real center frequency is 5262.5 MHz (SA display limitations)

Plot 7.1.6 Power and power density, low frequency

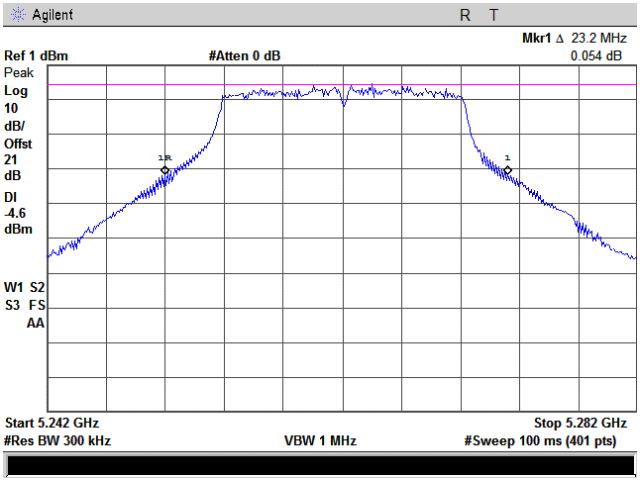
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM, 24 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Plot 7.1.7 The 26 dB emission bandwidth, low frequency

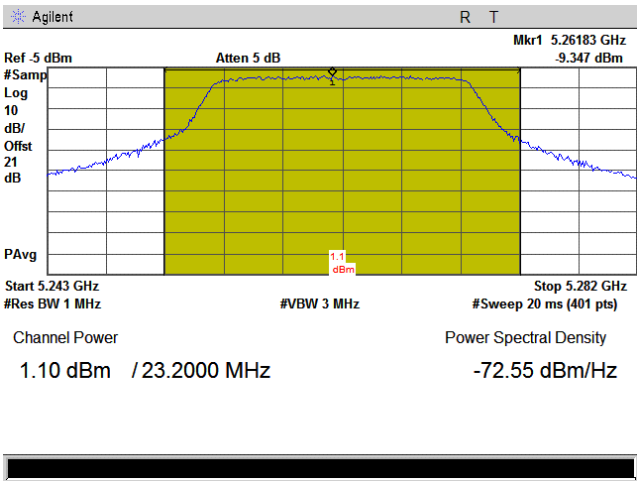
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 54 Mbps



Note: The real center frequency is 5262.5 MHz (SA display limitations)

Plot 7.1.8 Power and power density, low frequency

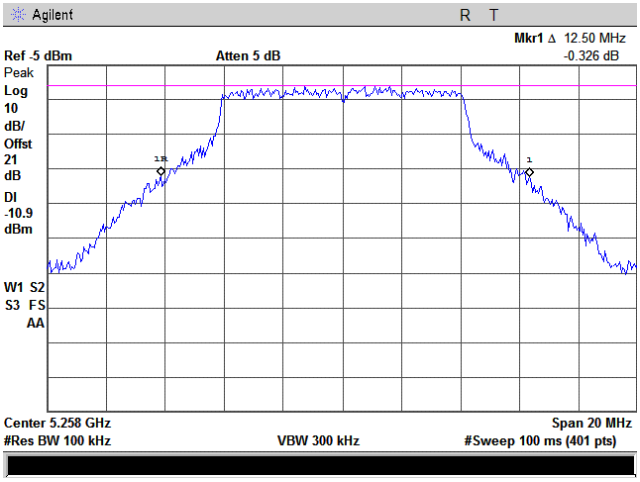
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 54 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Plot 7.1.9 The 26 dB emission bandwidth, low frequency

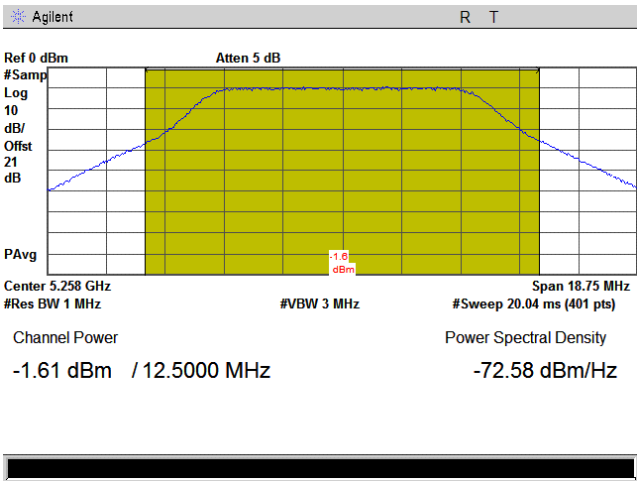
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 3 Mbps



Note: The real center frequency is 5257.5 MHz (SA display limitations)

Plot 7.1.10 Power and power density, low frequency

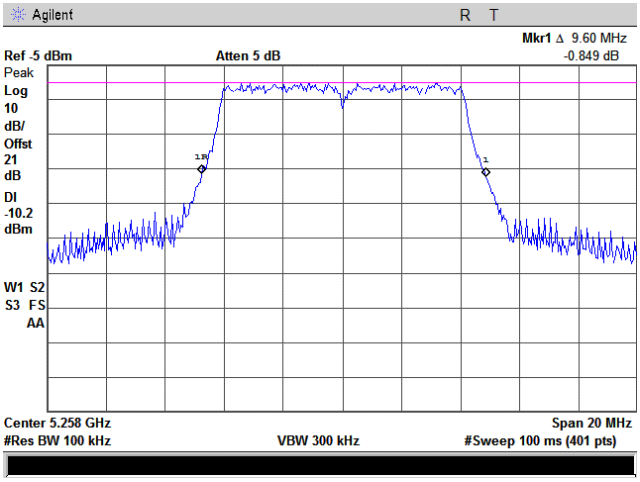
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 3 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Plot 7.1.11 The 26 dB emission bandwidth, low frequency

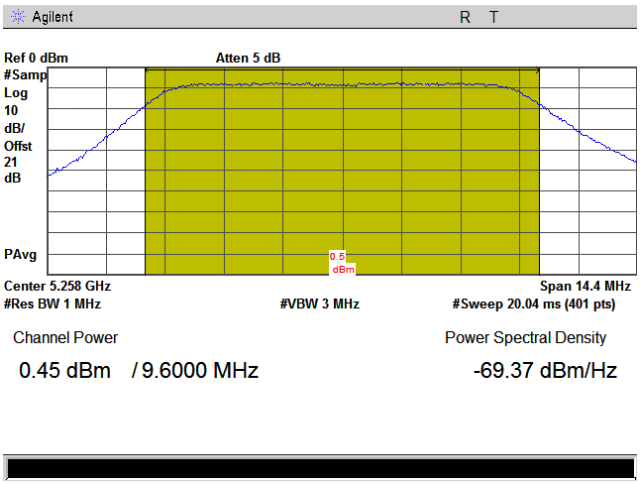
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK, 9 Mbps



Note: The real center frequency is 5257.5 MHz (SA display limitations)

Plot 7.1.12 Power and power density, low frequency

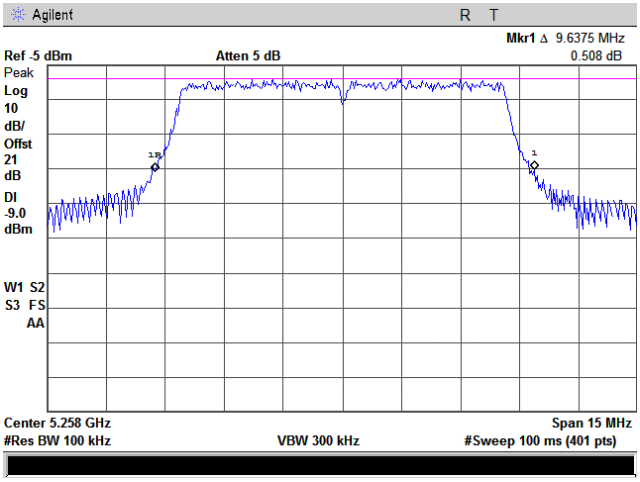
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK, 9 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Plot 7.1.13 The 26 dB emission bandwidth, low frequency

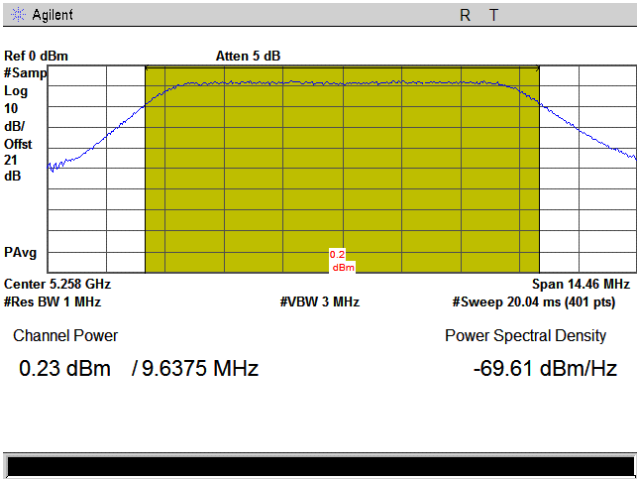
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM, 12 Mbps



Note: The real center frequency is 5257.5 MHz (SA display limitations)

Plot 7.1.14 Power and power density, low frequency

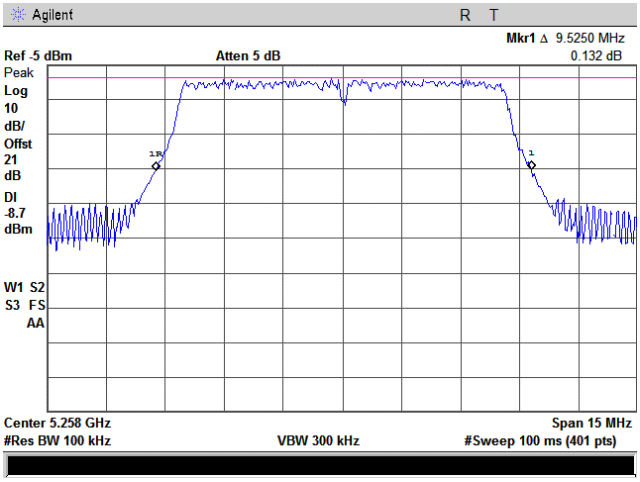
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM, 12 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Plot 7.1.15 The 26 dB emission bandwidth, low frequency

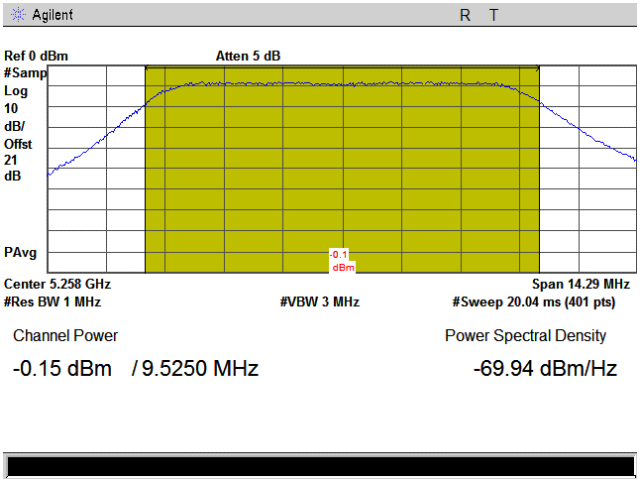
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 27 Mbps



Note: The real center frequency is 5257.5 MHz (SA display limitations)

Plot 7.1.16 Power and power density, low frequency

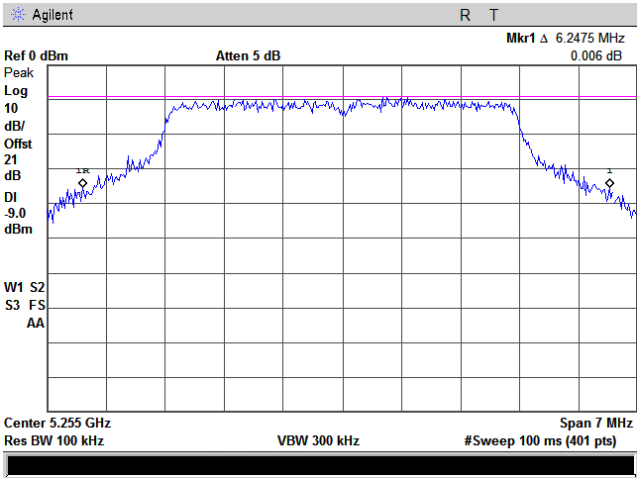
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 27 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

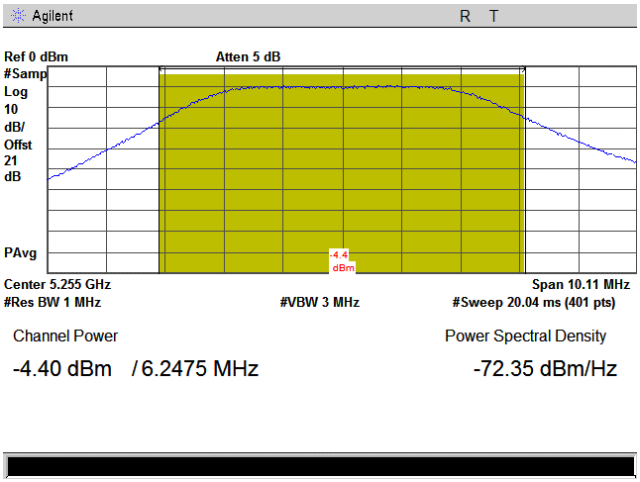
Plot 7.1.17 The 26 dB emission bandwidth, low frequency

Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 1.5 Mbps



Plot 7.1.18 Power and power density, low frequency

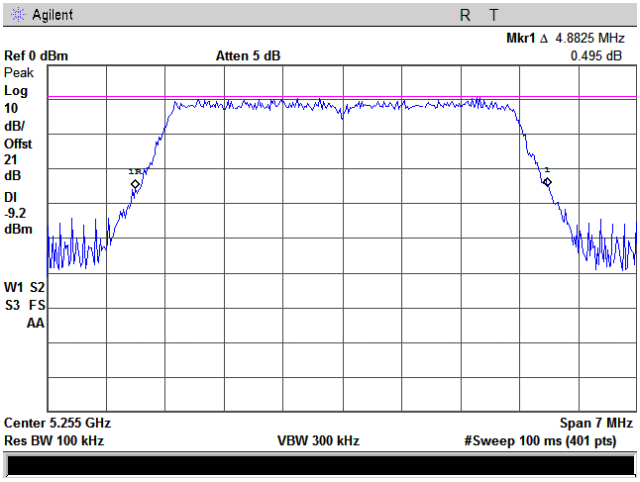
Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 1.5 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

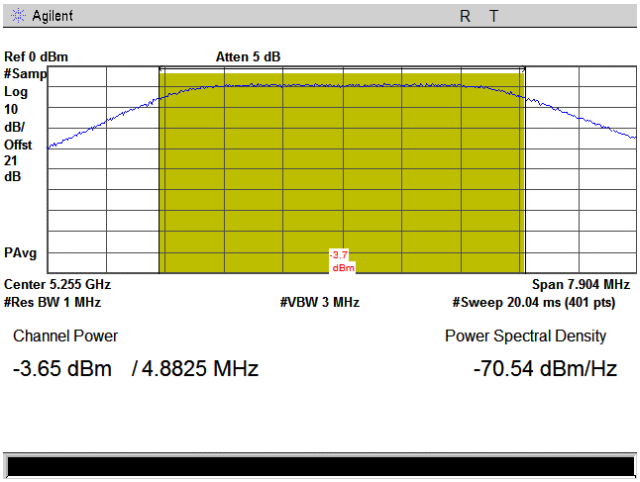
Plot 7.1.19 The 26 dB emission bandwidth, low frequency

Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK, 4.5 Mbps



Plot 7.1.20 Power and power density, low frequency

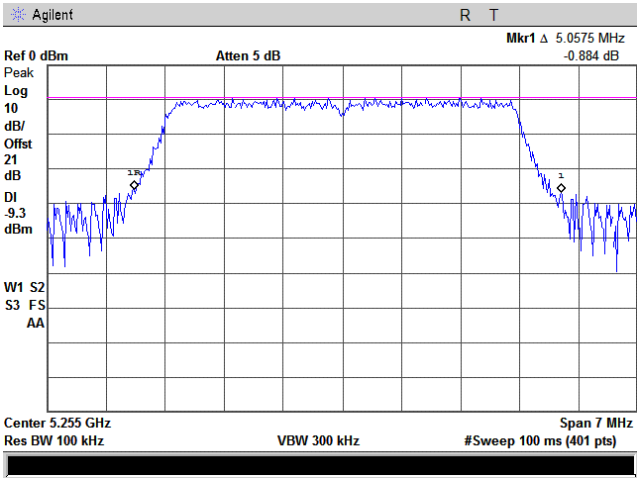
Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK, 4.5 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

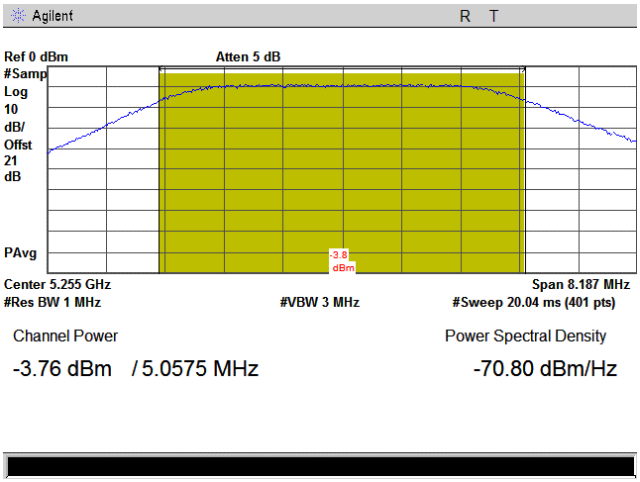
Plot 7.1.21 The 26 dB emission bandwidth, low frequency

Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM, 6 Mbps



Plot 7.1.22 Power and power density, low frequency

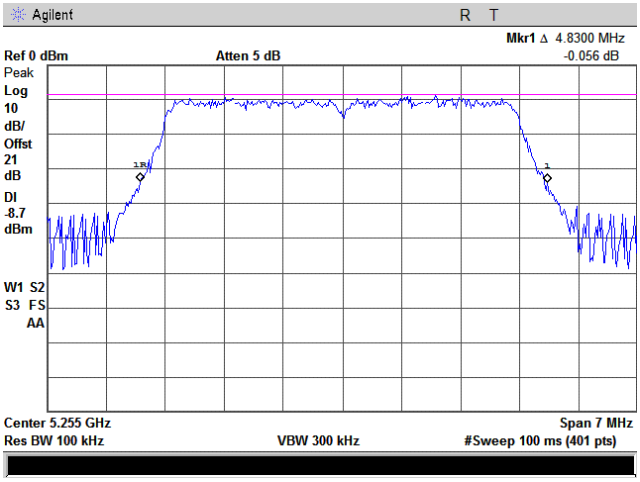
Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM, 6 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

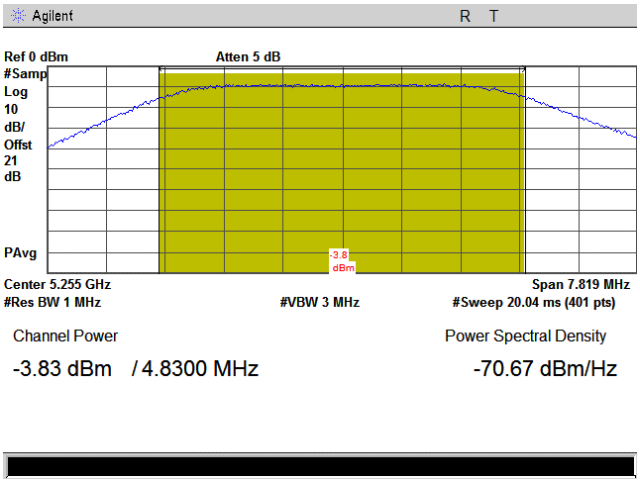
Plot 7.1.23 The 26 dB emission bandwidth, low frequency

Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 13.5 Mbps



Plot 7.1.24 Power and power density, low frequency

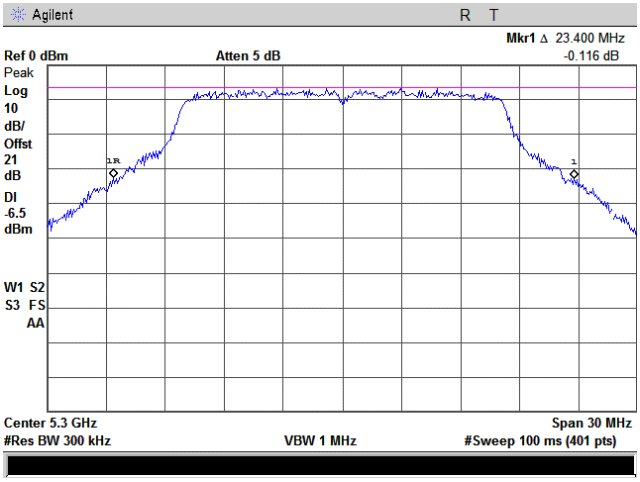
Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 13.5 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

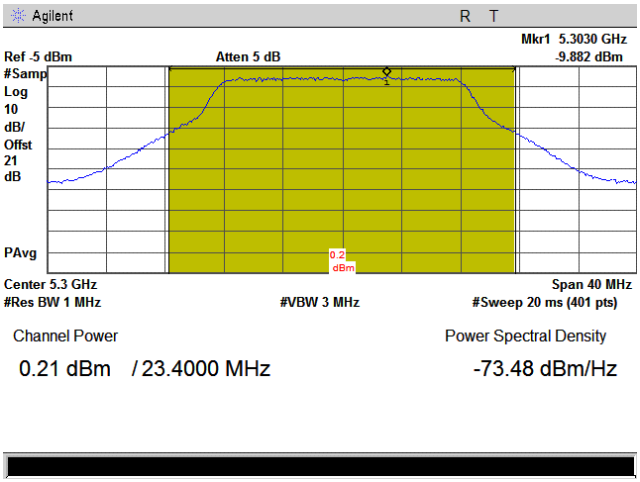
Plot 7.1.25 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 6 Mbps



Plot 7.1.26 Power and power density, mid frequency

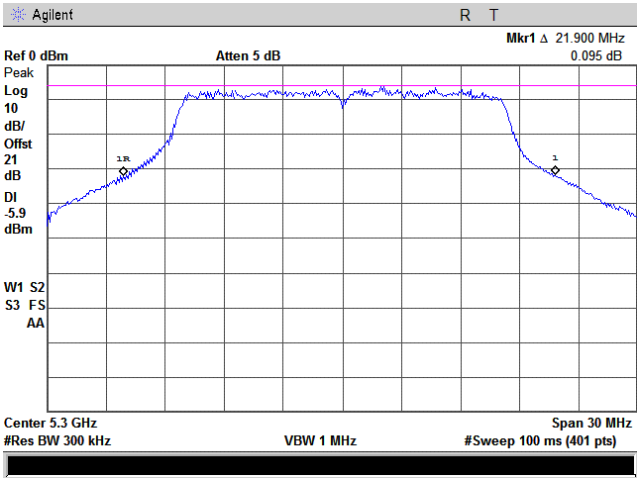
Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 6 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

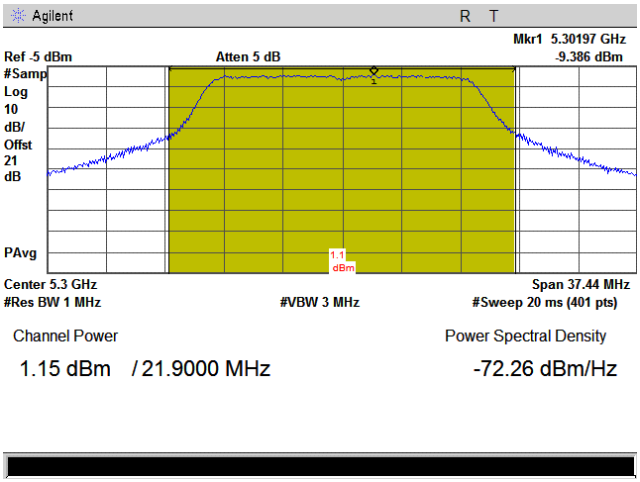
Plot 7.1.27 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK, 18 Mbps



Plot 7.1.28 Power and power density, mid frequency

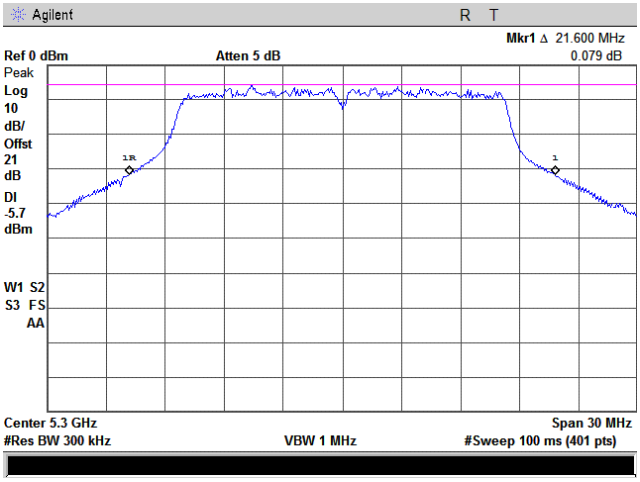
Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK, 18 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

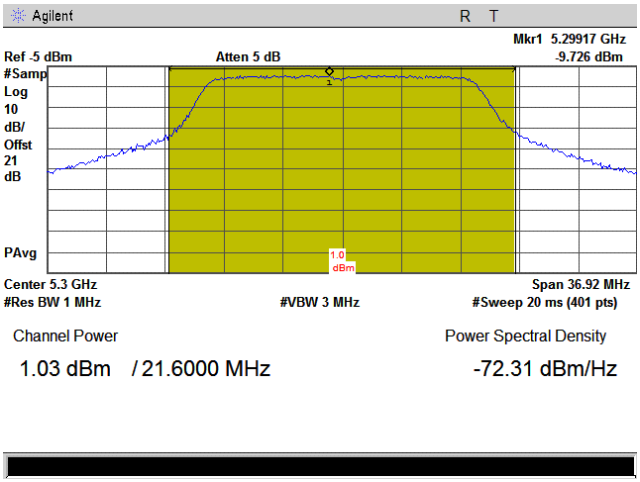
Plot 7.1.29 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM, 24 Mbps



Plot 7.1.30 Power and power density, mid frequency

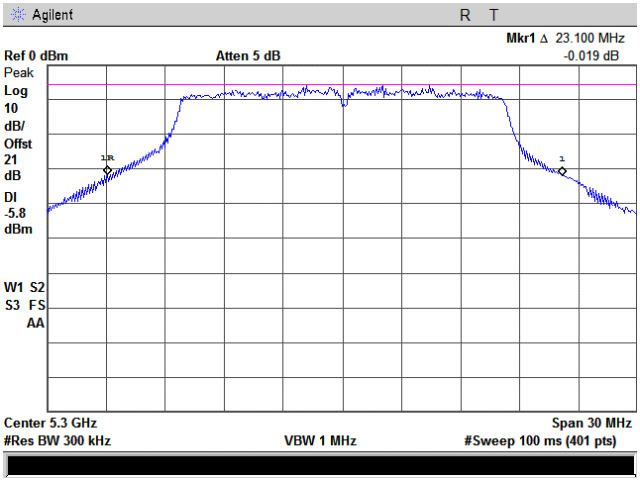
Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM, 24 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

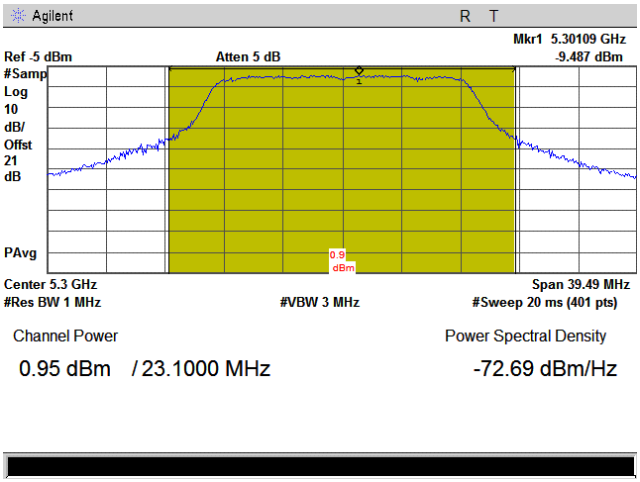
Plot 7.1.31 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 54 Mbps



Plot 7.1.32 Power and power density, mid frequency

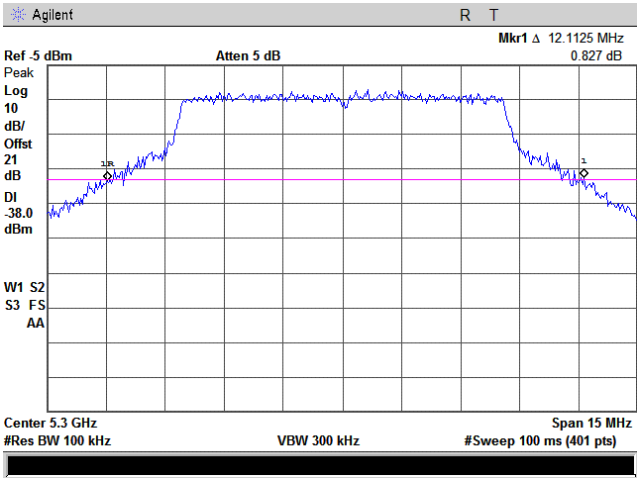
Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 54 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

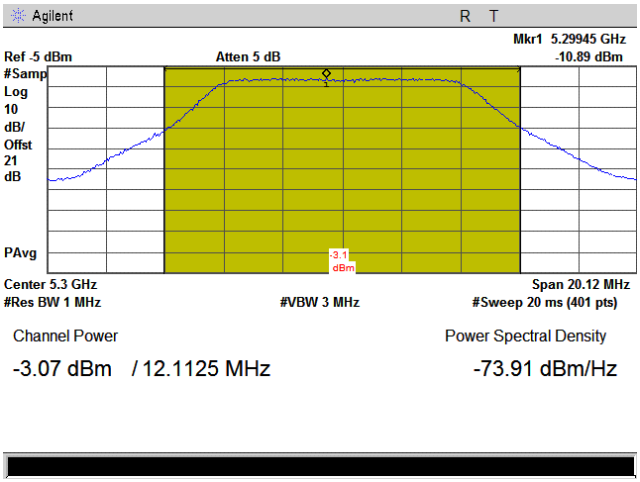
Plot 7.1.33 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 3 Mbps



Plot 7.1.34 Power and power density, mid frequency

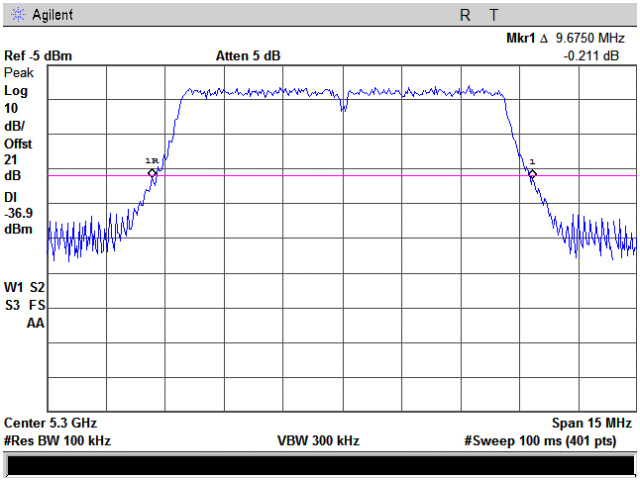
Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 3 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

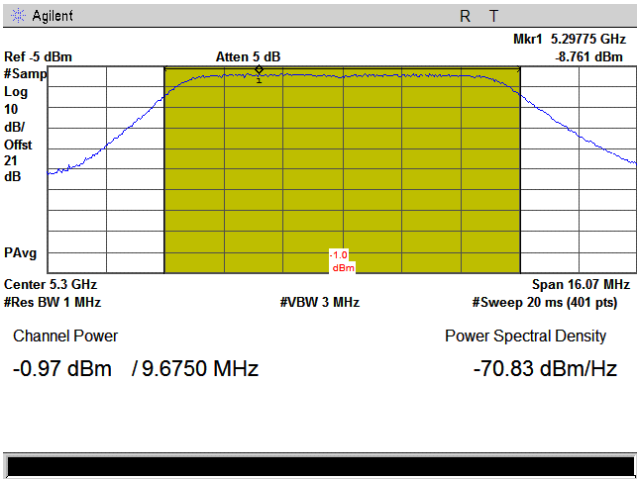
Plot 7.1.35 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK, 9 Mbps



Plot 7.1.36 Power and power density, mid frequency

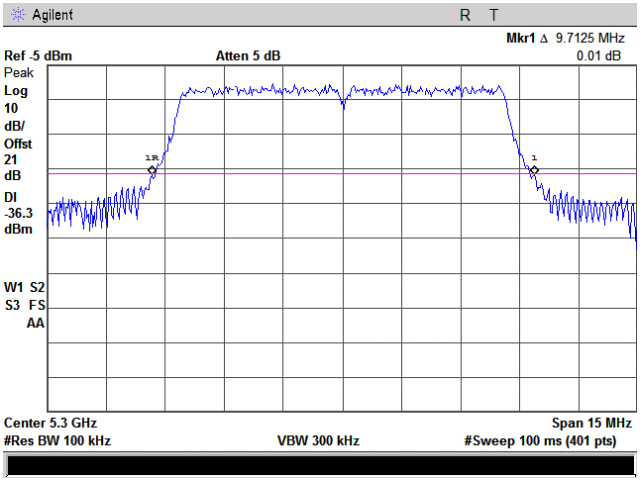
Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK, 9 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

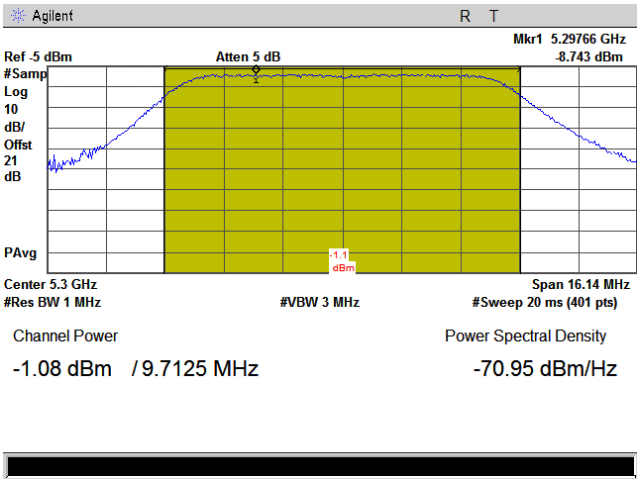
Plot 7.1.37 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM, 12 Mbps



Plot 7.1.38 Power and power density, mid frequency

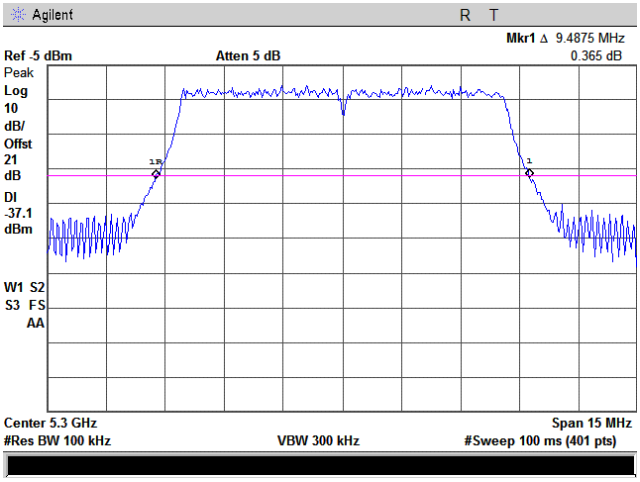
Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM, 12 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

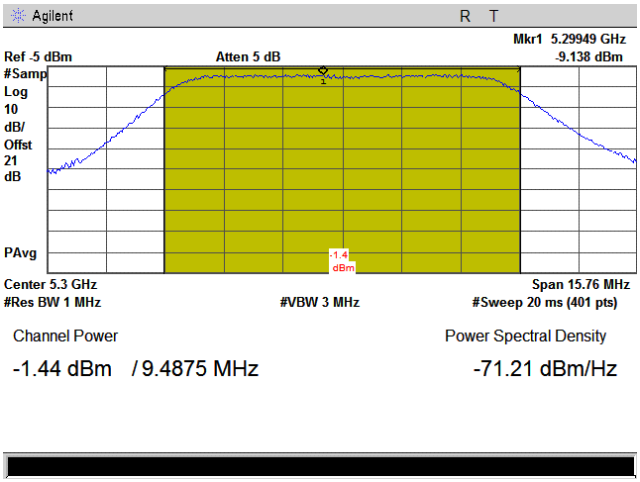
Plot 7.1.39 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 27 Mbps



Plot 7.1.40 Power and power density, mid frequency

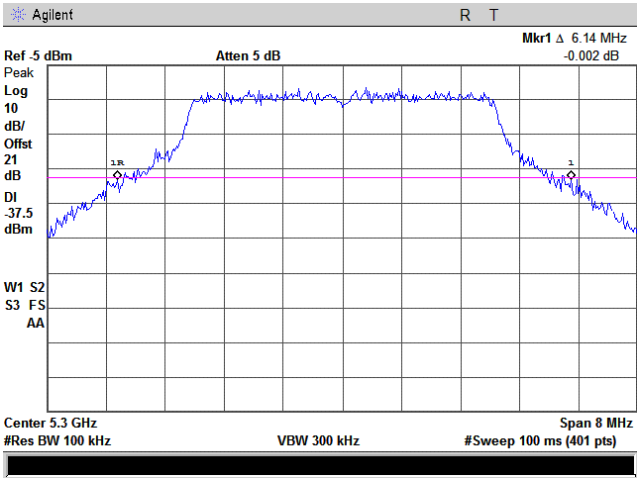
Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 27 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

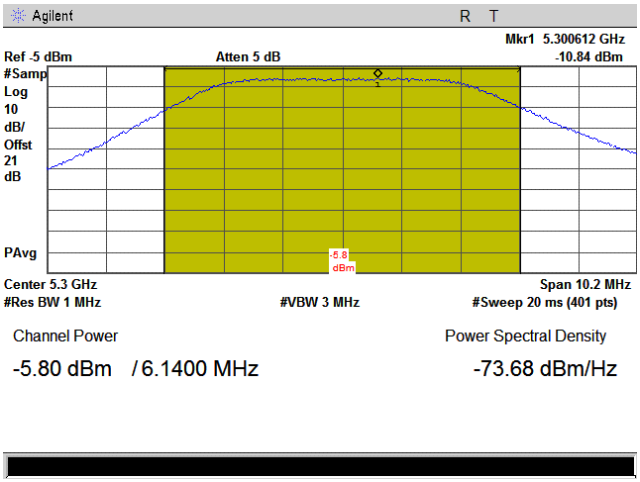
Plot 7.1.41 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 1.5 Mbps



Plot 7.1.42 Power and power density, mid frequency

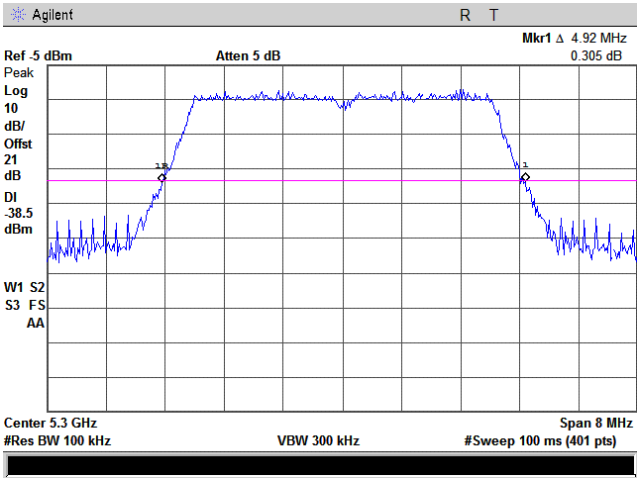
Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 1.5 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

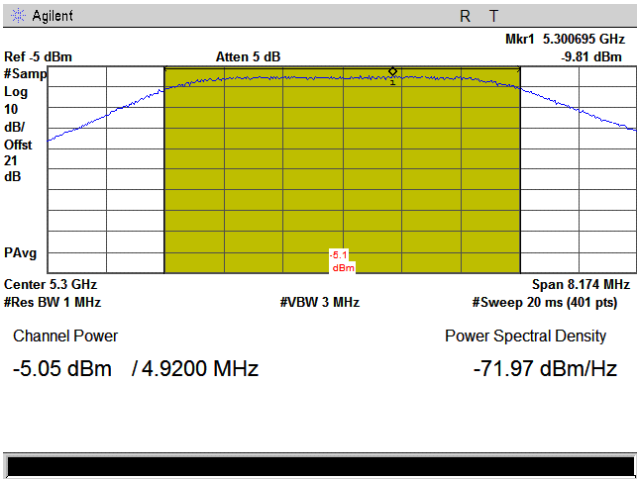
Plot 7.1.43 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK, 4.5 Mbps



Plot 7.1.44 Power and power density, mid frequency

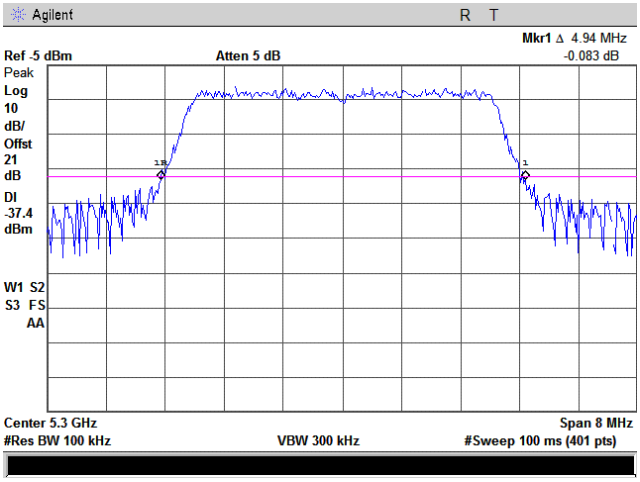
Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK, 4.5 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

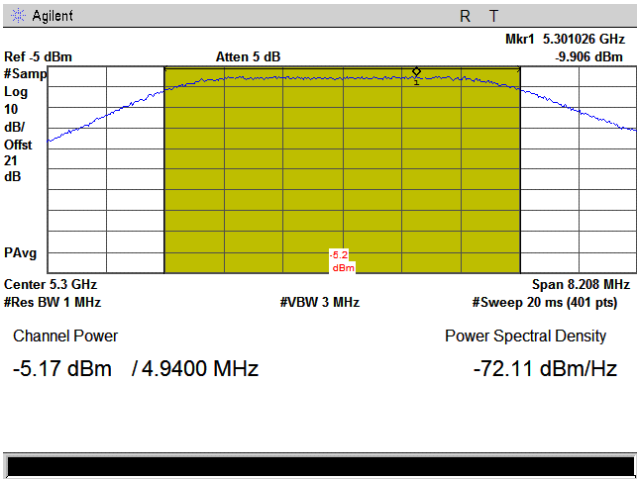
Plot 7.1.45 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM, 6 Mbps



Plot 7.1.46 Power and power density, mid frequency

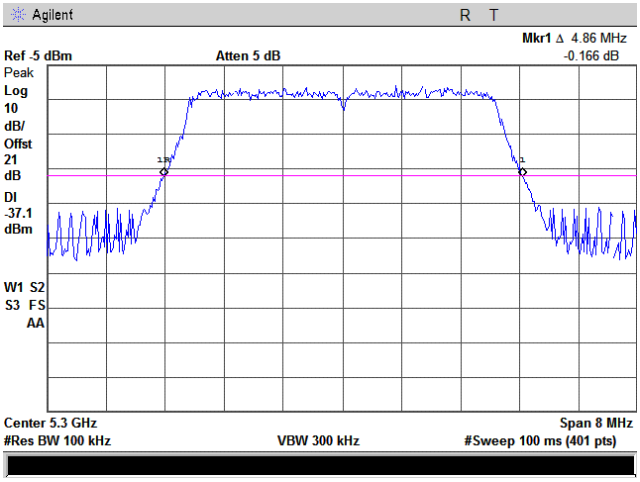
Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM, 6 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

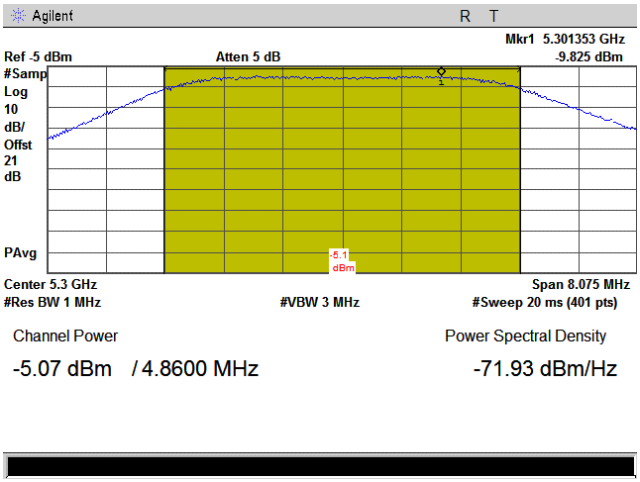
Plot 7.1.47 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 13.5 Mbps



Plot 7.1.48 Power and power density, mid frequency

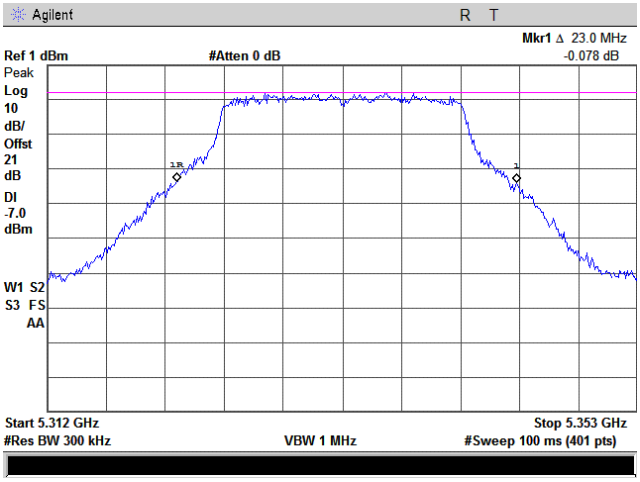
Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 13.5 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

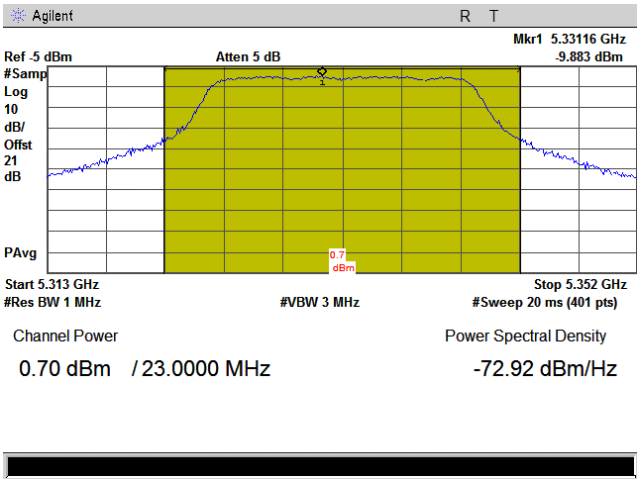
Plot 7.1.49 The 26 dB emission bandwidth, high frequency

Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 6 Mbps



Plot 7.1.50 Power and power density, high frequency

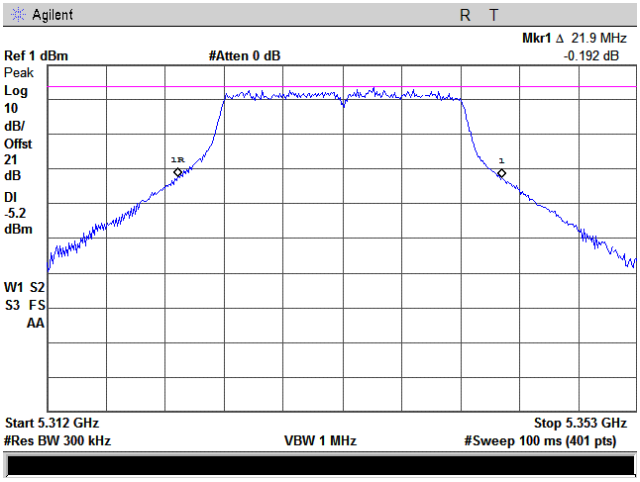
Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 6 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

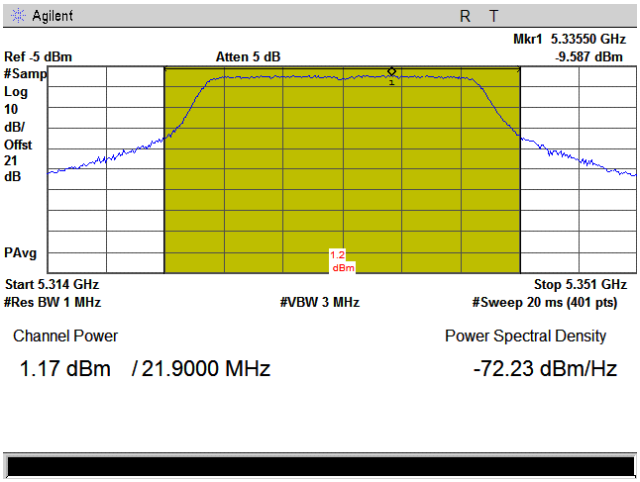
Plot 7.1.51 The 26 dB emission bandwidth, high frequency

Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK, 18 Mbps



Plot 7.1.52 Power and power density, high frequency

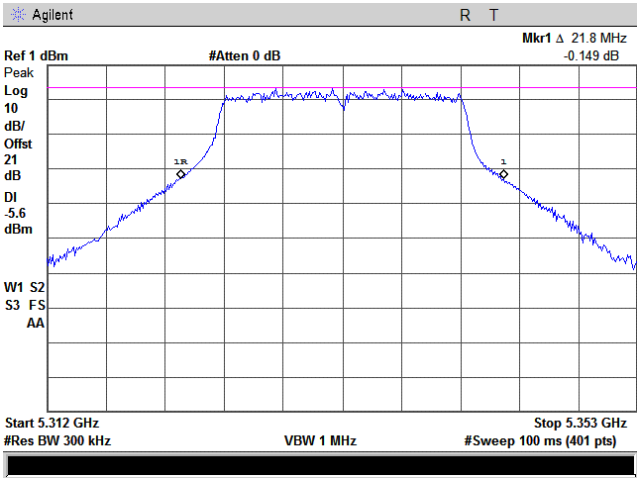
Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK, 18 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

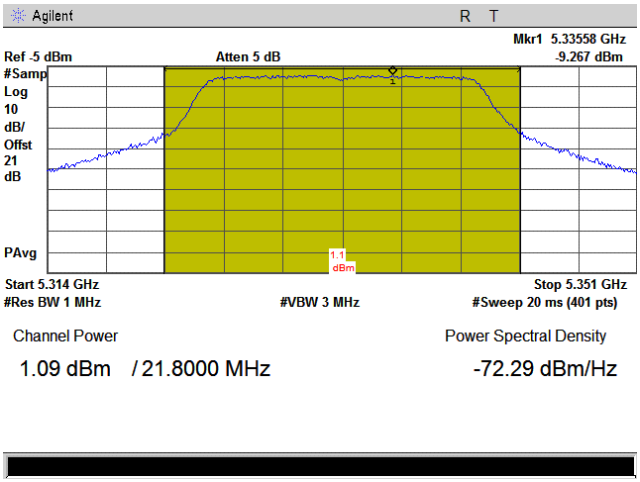
Plot 7.1.53 The 26 dB emission bandwidth, high frequency

Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM, 24 Mbps



Plot 7.1.54 Power and power density, high frequency

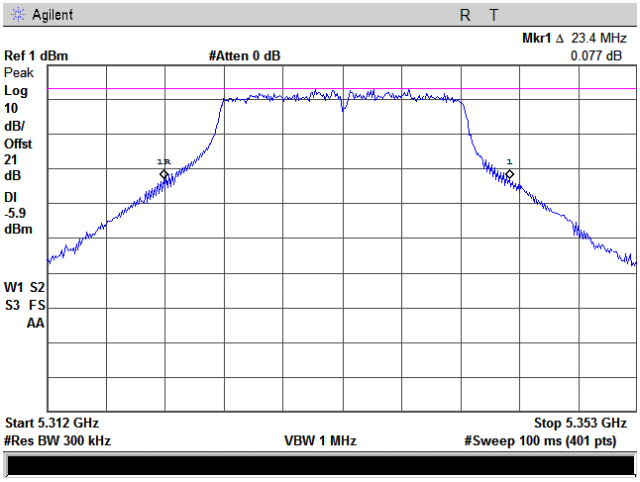
Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM, 24 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

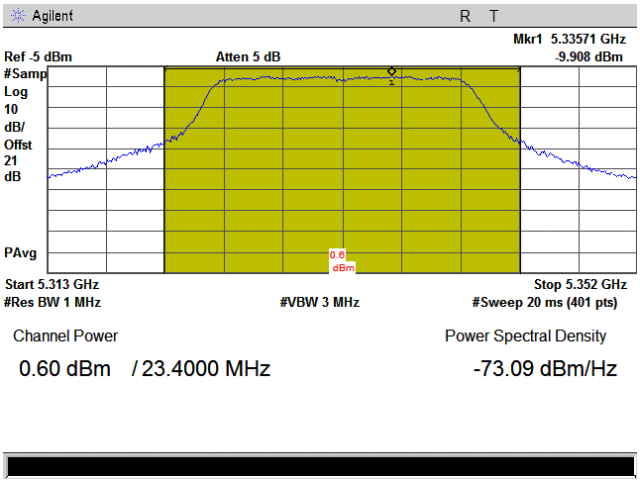
Plot 7.1.55 The 26 dB emission bandwidth, high frequency

Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 54 Mbps



Plot 7.1.56 Power and power density, high frequency

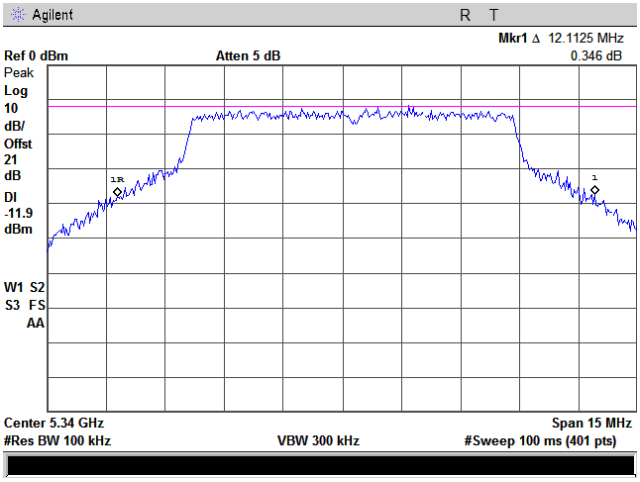
Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 54 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

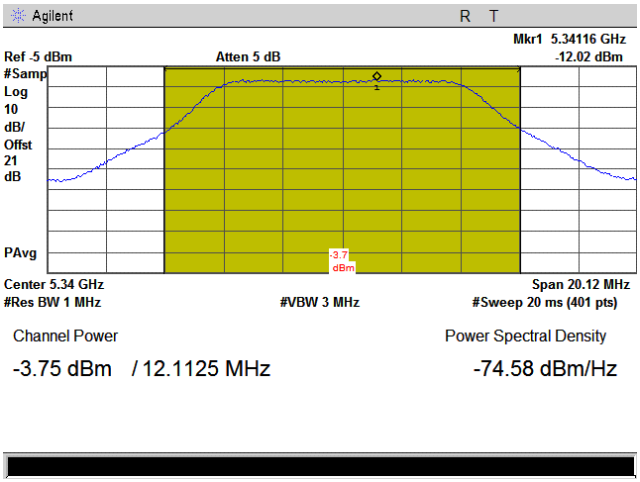
Plot 7.1.57 The 26 dB emission bandwidth, high frequency

Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 3 Mbps



Plot 7.1.58 Power and power density, high frequency

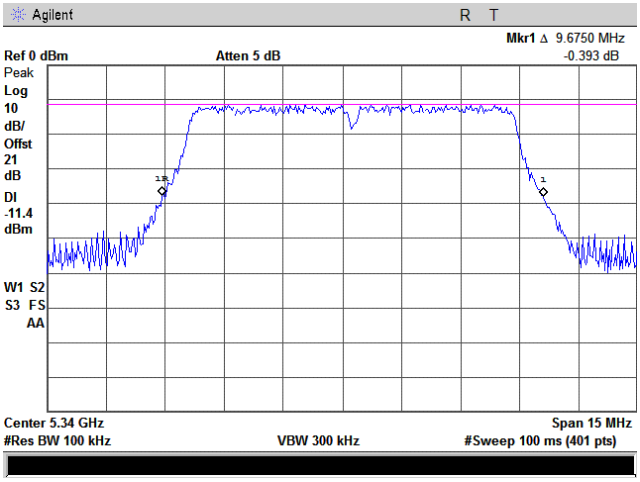
Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 3 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

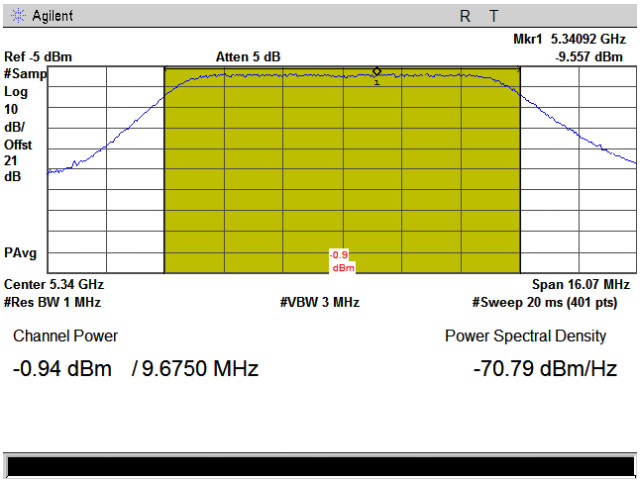
Plot 7.1.59 The 26 dB emission bandwidth, high frequency

Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK, 9 Mbps



Plot 7.1.60 Power and power density, high frequency

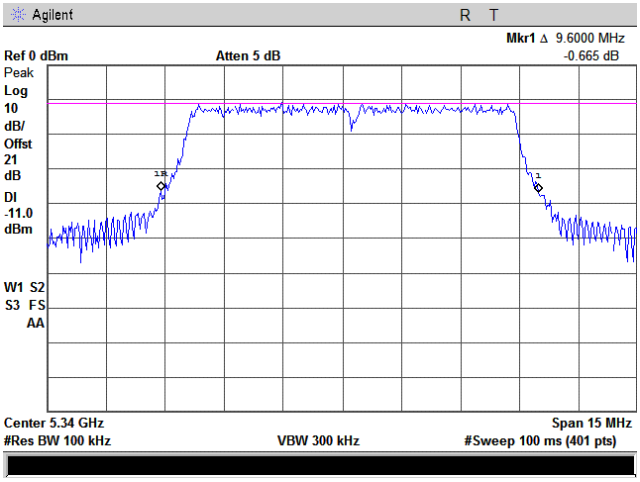
Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK, 9 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

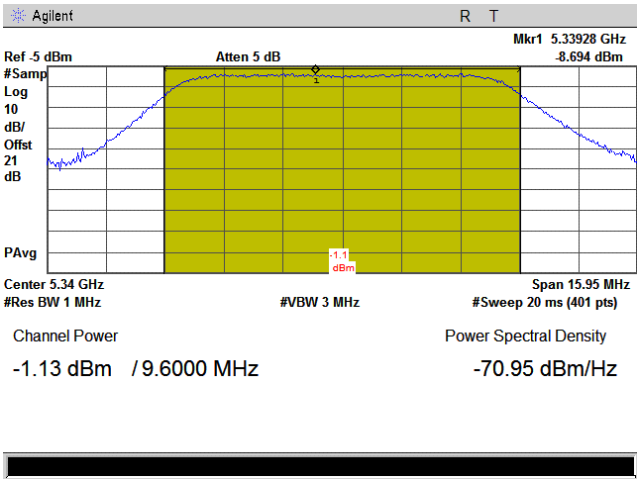
Plot 7.1.61 The 26 dB emission bandwidth, high frequency

Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM, 12 Mbps



Plot 7.1.62 Power and power density, high frequency

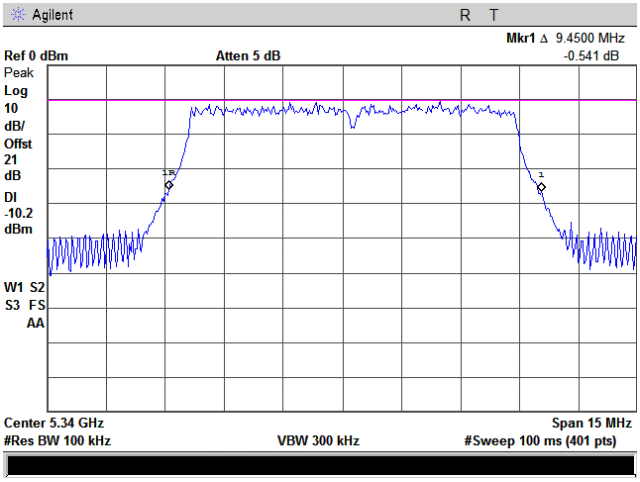
Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM, 12 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

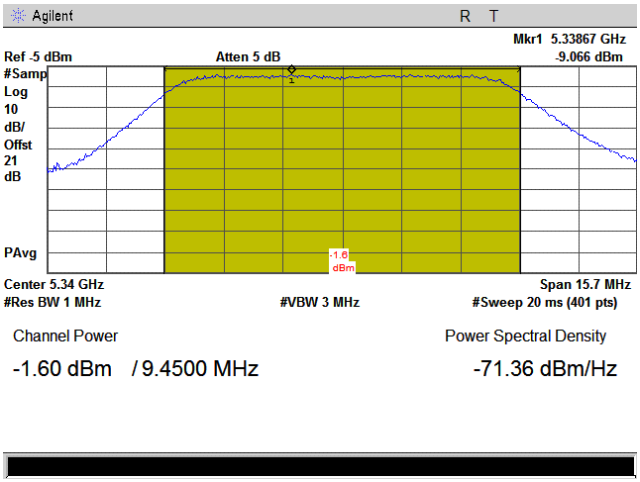
Plot 7.1.63 The 26 dB emission bandwidth, high frequency

Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 27 Mbps



Plot 7.1.64 Power and power density, high frequency

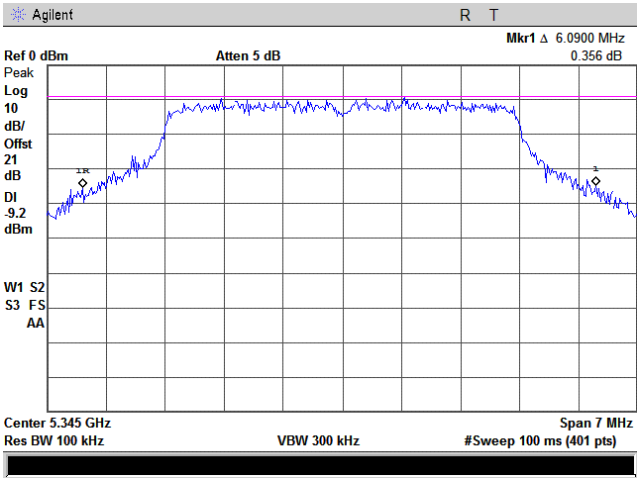
Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 27 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

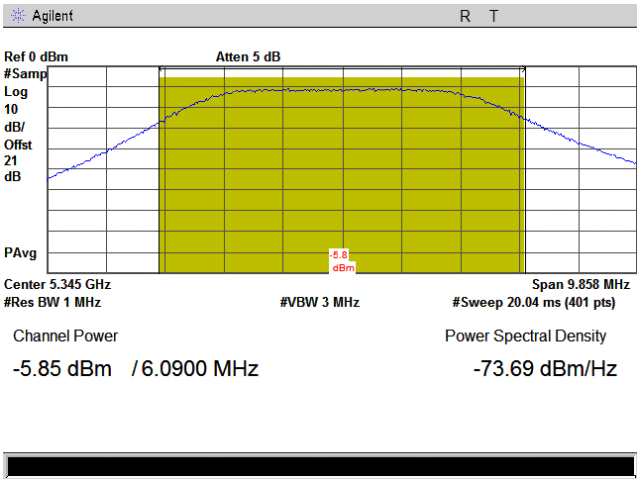
Plot 7.1.65 The 26 dB emission bandwidth, high frequency

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 1.5 Mbps



Plot 7.1.66 Power and power density, high frequency

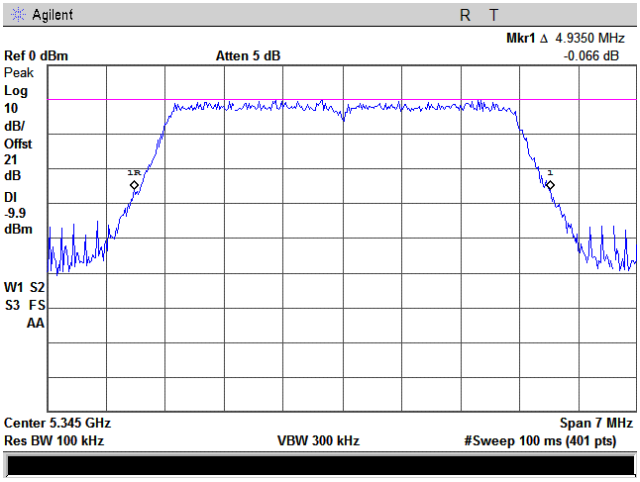
Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 1.5 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

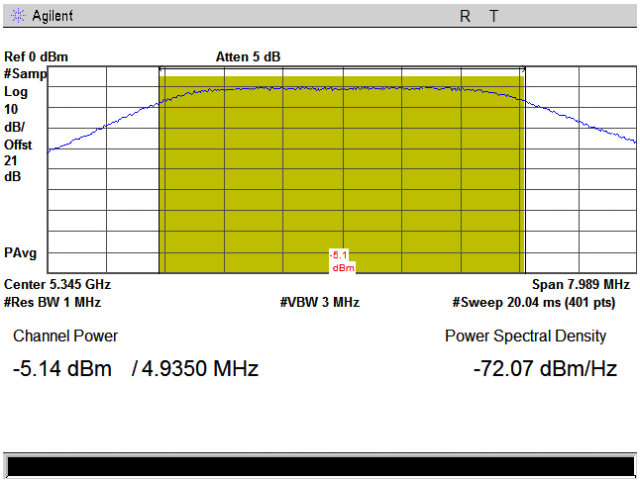
Plot 7.1.67 The 26 dB emission bandwidth, high frequency

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK, 4.5 Mbps



Plot 7.1.68 Power and power density, high frequency

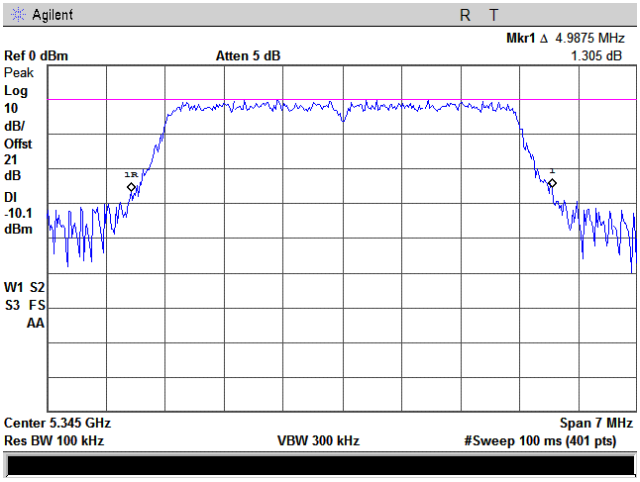
Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK, 4.5 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

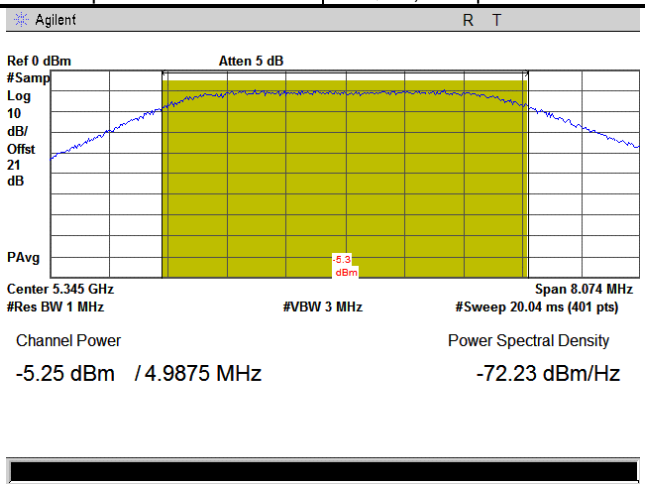
Plot 7.1.69 The 26 dB emission bandwidth, high frequency

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM, 6 Mbps



Plot 7.1.70 Power and power density, high frequency

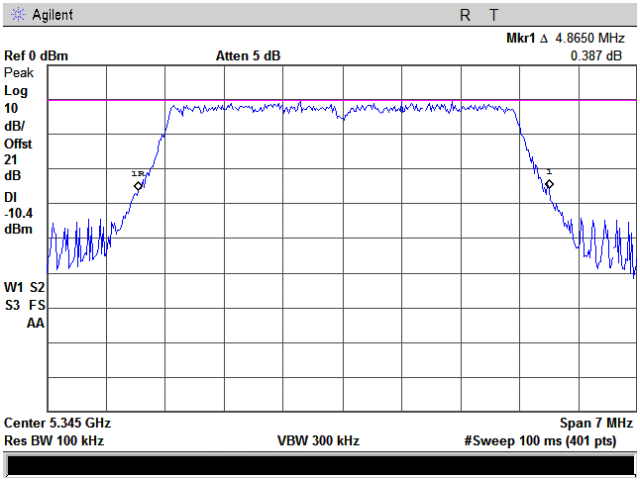
Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM, 6 Mbps



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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

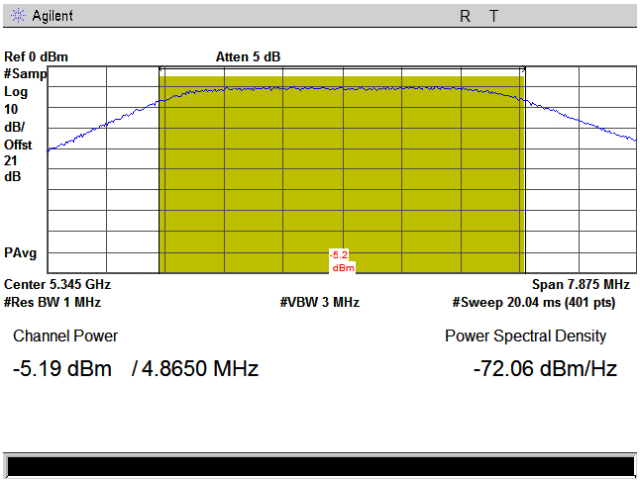
Plot 7.1.71 The 26 dB emission bandwidth, high frequency

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 13.5 Mbps



Plot 7.1.72 Power and power density, high frequency

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 13.5 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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Table 7.1.4 Average output power and peak power spectral density test results

ASSIGNED FREQUENCY: 5250 - 5350 MHz
TRANSMITTER OUTPUT POWER SETTINGS: "3 dBm" at 5 MHz channel bandwidth
"6 dBm" at 10 MHz channel bandwidth
"9 dBm" at 20 MHz channel bandwidth
DETECTOR USED: Sample
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz
METHOD OF POWER MEASUREMENTS: 1
METHOD OF POWER DENSITY MEASUREMENTS: 2

Frequency, MHz	26 dB bandwidth	Bit rate, MBps	Modulation	Output power			Peak power density			Verdict
				Measured, dBm	Limit, dBm	Margin, dB*	Measured, dBm/MHz	Limit, dBm/MHz	Margin, dB**	
Low frequency, CBW 20 MHz										
5262.5	23.10	6	BPSK	1.77	8	-6.23	-12.86	-5	-7.86	Pass
5262.5	21.80	18	QPSK	2.20	8	-5.8	-11.18	-5	-6.18	Pass
5262.5	21.80	24	16QAM	2.97	8	-5.03	-10.41	-5	-5.41	Pass
5262.5	23.40	54	64QAM	2.51	8	-5.49	-11.19	-5	-6.19	Pass
Low frequency, CBW 10 MHz										
5257.5	12.34	3	BPSK	-0.60	5.81	-6.41	-11.52	-5	-6.52	Pass
5257.5	9.56	9	QPSK	0.98	4.82	-3.84	-8.83	-5	-3.83	Pass
5257.5	9.53	12	16QAM	1.14	4.82	-3.68	-8.65	-5	-3.65	Pass
5257.5	9.49	27	64QAM	-0.04	4.81	-4.85	-9.81	-5	-4.81	Pass
Low frequency, CBW 5 MHz										
5255	6.09	1.5	BPSK	-3.47	2.85	-6.32	-11.32	-5	-6.32	Pass
5255	4.85	4.5	QPSK	-2.77	1.86	-4.63	-9.63	-5	-4.63	Pass
5255	4.87	6	16QAM	-2.89	1.87	-4.76	-9.76	-5	-4.76	Pass
5255	4.85	13.5	64QAM	-3.92	1.86	-5.78	-10.78	-5	-5.78	Pass
Mid channel, CBW 20 MHz										
5300	23.33	6	BPSK	0.67	8.00	-7.33	-13.48	-5	-8.48	Pass
5300	21.90	18	QPSK	2.03	8.00	-5.97	-11.37	-5	-6.37	Pass
5300	21.53	24	16QAM	1.93	8.00	-6.07	-11.40	-5	-6.40	Pass
5300	23.10	54	64QAM	1.91	8.00	-6.09	-11.73	-5	-6.73	Pass
Mid channel, CBW 10 MHz										
5300	12.04	3	BPSK	-1.76	5.81	-7.57	-12.56	-5	-7.56	Pass
5300	9.64	9	QPSK	0.01	4.84	-4.83	-9.82	-5	-4.82	Pass
5300	9.75	12	16QAM	-0.08	4.89	-4.97	-9.97	-5	-4.97	Pass
5300	9.41	27	64QAM	-0.50	4.74	-5.24	-10.24	-5	-5.24	Pass
Mid channel, CBW 5 MHz										
5300	6.14	1.5	BPSK	-4.83	2.88	-7.71	-12.26	-5	-7.26	Pass
5300	4.88	4.5	QPSK	-4.12	1.88	-6.00	-11.00	-5	-6.00	Pass
5300	5.00	6	16QAM	-4.18	1.99	-6.17	-11.17	-5	-6.17	Pass
5300	4.88	13.5	64QAM	-3.68	1.88	-5.56	-10.56	-5	-5.56	Pass

Note 1: due to 22 dBi antenna gain the limits of peak output power and peak power spectral density shall be reduced by 16 dB
Note 2: Measurement plots are in dBm/Hz, in order to convert to dBm/MHz a 60dB factor was added
* - Margin = Measured output power – specification limit
** - Margin = Measured peak power density – specification limit.

Test specification:	**FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density**		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	**Verdict:**	PASS
Date:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Table 7.1.3 Average output power and peak power density test results (continued)

Frequency, MHz	26 dB bandwidth	Bit rate, MBps	Modulation	Output power			Peak power density			Verdict
				Measured, dBm	Limit, dBm	Margin, dB*	Measured, dBm/MHz	Limit, dBm/MHz	Margin, dB**	
High channel, CBW 20 MHz										
5332.5	23.40	6	BPSK	1.49	8	-6.51	-12.20	-5	-7.20	Pass
5332.5	21.80	18	QPSK	2.06	8	-5.94	-11.32	-5	-6.32	Pass
5332.5	21.40	24	16QAM	1.66	8	-6.34	-11.64	-5	-6.64	Pass
5332.5	23.10	54	64QAM	2.01	8	-5.99	-11.63	-5	-6.63	Pass
High channel, CBW 10 MHz										
5340	12.04	3	BPSK	-2.34	5.97	-8.31	-13.15	-5	-8.15	Pass
5340	9.60	9	QPSK	-0.15	4.82	-4.97	-9.97	-5	-4.97	Pass
5340	9.60	12	16QAM	-0.23	4.84	-5.07	-10.06	-5	-5.06	Pass
5340	9.56	27	64QAM	-0.65	4.79	-5.44	-10.46	-5	-5.46	Pass
High channel, CBW 5 MHz										
5345	6.18	1.5	BPSK	-5.25	2.91	-8.16	-13.15	-5	-8.15	Pass
5345	4.92	4.5	QPSK	-3.66	1.92	-5.58	-10.58	-5	-5.58	Pass
5345	4.85	6	16QAM	-3.97	1.86	-5.83	-10.82	-5	-5.82	Pass
5345	4.90	13.5	64QAM	-3.84	1.90	-5.74	-10.74	-5	-5.74	Pass

Note 1: due to 22 dBi antenna gain the limits of peak output power and peak power spectral density shall be reduced by 16 dB

Note 2: Measurement plots are in dBm/Hz, in order to convert to dBm/MHz a 60dB factor was added

* - Margin = Measured output power – specification limit

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

Reference numbers of test equipment used

HL 2909	HL 2952	HL 3208	HL 3439				

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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Table 7.1.5 Peak output power test results measured with power meter

ASSIGNED FREQUENCY: 5250 - 5350 MHz
MODULATING SIGNAL: OFDM
TRANSMITTER OUTPUT POWER SETTINGS: "3 dBm" at 5 MHz channel bandwidth
"6 dBm" at 10 MHz channel bandwidth
"9 dBm" at 20 MHz channel bandwidth
DETECTOR USED: Peak / Average
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz

Frequency, MHz	Bit rate, Mbps	Modulation	Power meter reading, dBm	Feeder loss, dB	Peak output power, dBm
Low channel					
5262.5	6	BPSK	14.45	1	13.45
5262.5	18	QPSK	14.55	1	13.55
5262.5	24	16QAM	14.44	1	13.44
5262.5	54	64QAM	14.38	1	13.38
5257.5	3	BPSK	12.14	1	11.14
5257.5	9	QPSK	10.85	1	9.85
5257.5	12	16QAM	11.65	1	10.65
5257.5	27	64QAM	11.18	1	10.18
5255	1.5	BPSK	9.56	1	8.56
5255	4.5	QPSK	9.09	1	8.09
5255	6	16QAM	9.60	1	8.60
5255	13.5	64QAM	8.98	1	7.98
Mid channel					
5300	6	BPSK	13.85	1	12.85
5300	18	QPSK	13.35	1	12.35
5300	24	16QAM	14.17	1	13.17
5300	54	64QAM	13.05	1	12.05
5300	3	BPSK	11.09	1	10.09
5300	9	QPSK	11.55	1	10.55
5300	12	16QAM	11.71	1	10.71
5300	27	64QAM	11.02	1	10.02
5300	1.5	BPSK	9.46	1	8.46
5300	4.5	QPSK	8.07	1	7.07
5300	6	16QAM	9.49	1	8.49
5300	13.5	64QAM	8.38	1	7.38
High channel					
5332.5	6	BPSK	13.45	1	12.45
5332.5	18	QPSK	13.45	1	12.45
5332.5	24	16QAM	14.45	1	13.45
5332.5	54	64QAM	13.46	1	12.46
5340	3	BPSK	11.19	1	10.19
5340	9	QPSK	10.47	1	9.47
5340	12	16QAM	11.58	1	10.58
5340	27	64QAM	10.54	1	9.54
5345	1.5	BPSK	9.08	1	8.08
5345	4.5	QPSK	8.25	1	7.25
5345	6	16QAM	8.62	1	7.62
5345	13.5	64QAM	8.05	1	7.05

Reference numbers of test equipment used

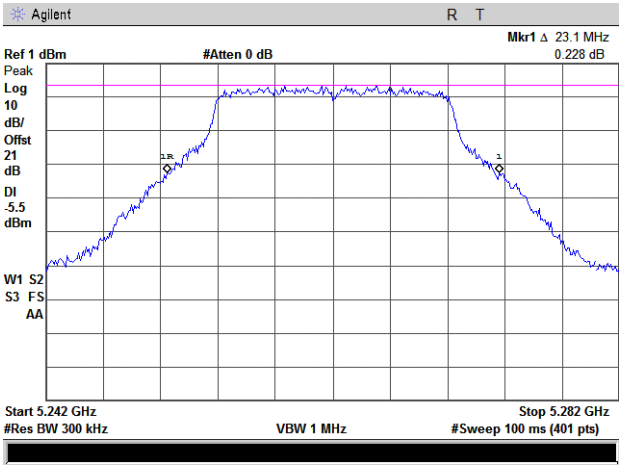
HL 2909	HL 3208	HL 3439					

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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.1.73 The 26 dB emission bandwidth

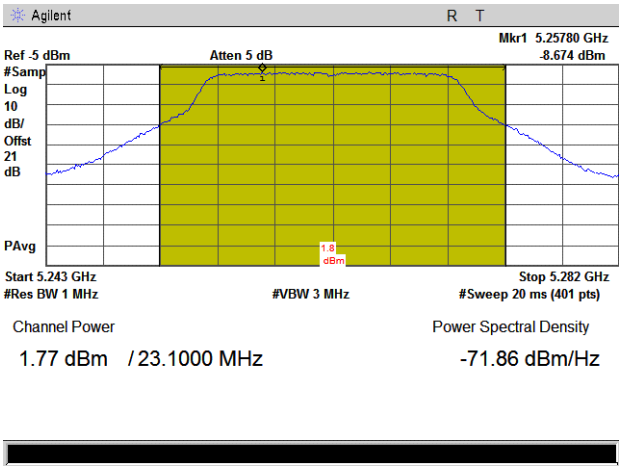
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 6 Mbps



Note: The real center frequency is 5262.5 MHz (SA display limitations)

Plot 7.1.74 Power and power density, low frequency

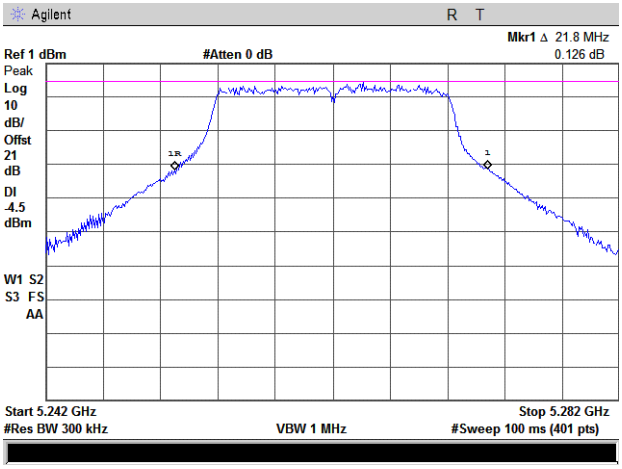
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 6 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.1.75 The 26 dB emission bandwidth, low frequency

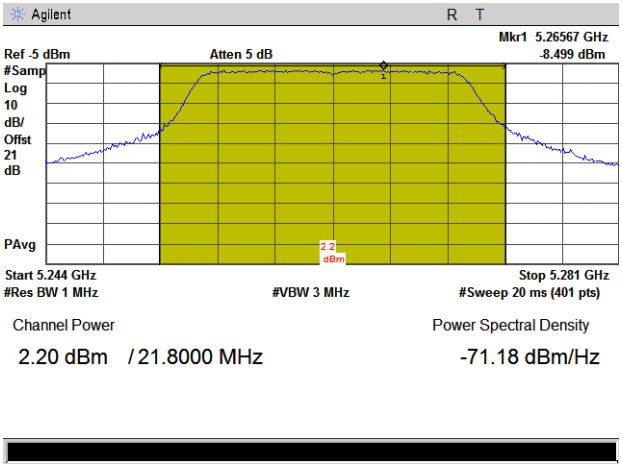
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK, 18 Mbps



Note: The real center frequency is 5262.5 MHz (SA display limitations)

Plot 7.1.76 Power and power density, low frequency

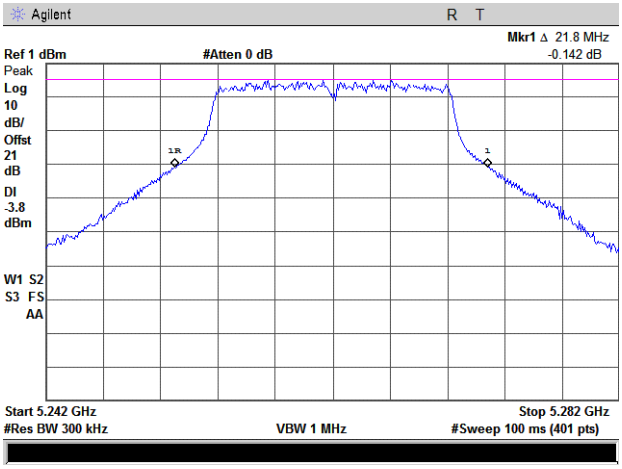
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK, 18 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.1.77 The 26 dB emission bandwidth, low frequency

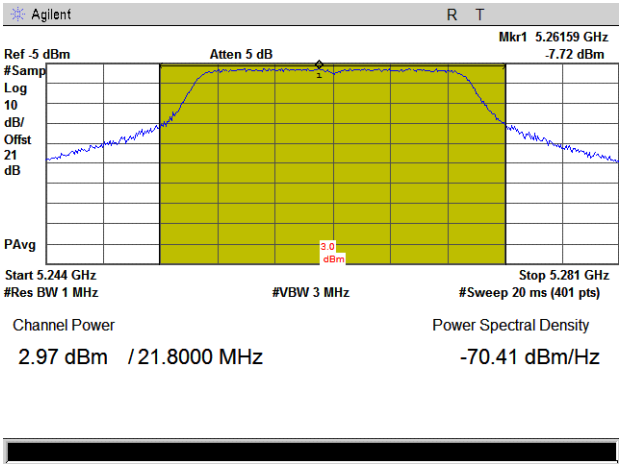
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM, 24 Mbps



Note: The real center frequency is 5262.5 MHz (SA display limitations)

Plot 7.1.78 Power and power density, low frequency

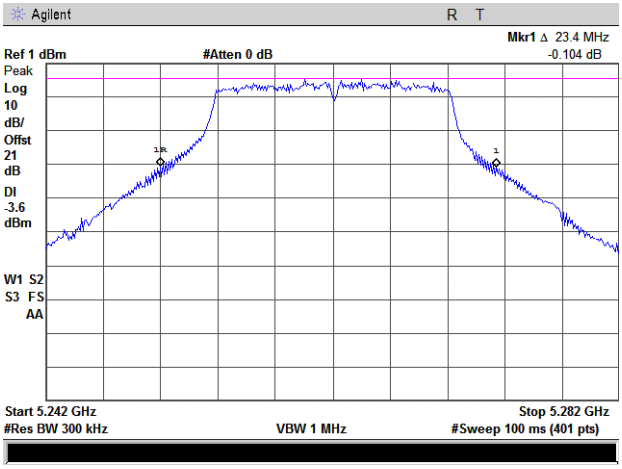
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM, 24 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.1.79 The 26 dB emission bandwidth, low frequency

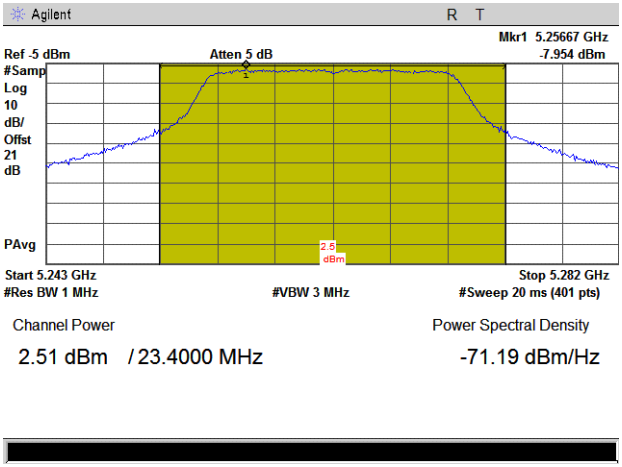
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 54 Mbps



Note: The real center frequency is 5262.5 MHz (SA display limitations)

Plot 7.1.80 Power and power density, low frequency

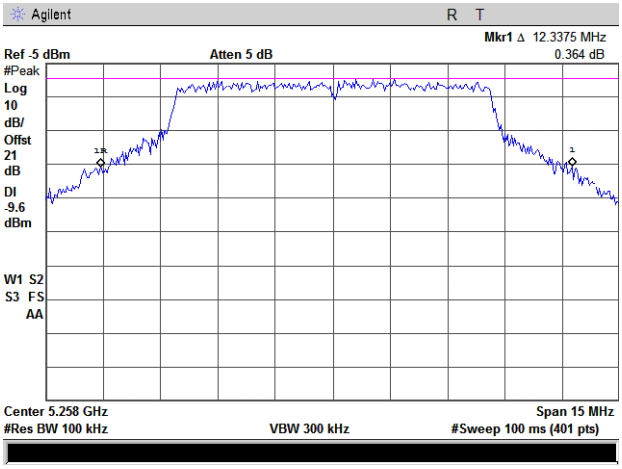
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 54 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.1.81 The 26 dB emission bandwidth, low frequency

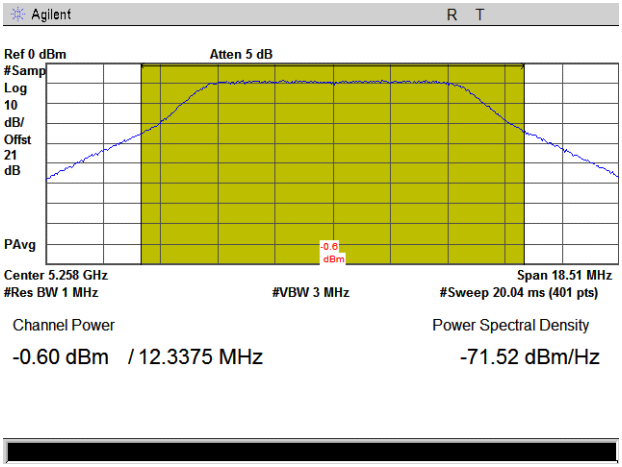
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 3 Mbps



Note: The real center frequency is 5257.5 MHz (SA display limitations)

Plot 7.1.82 Power and power density, low frequency

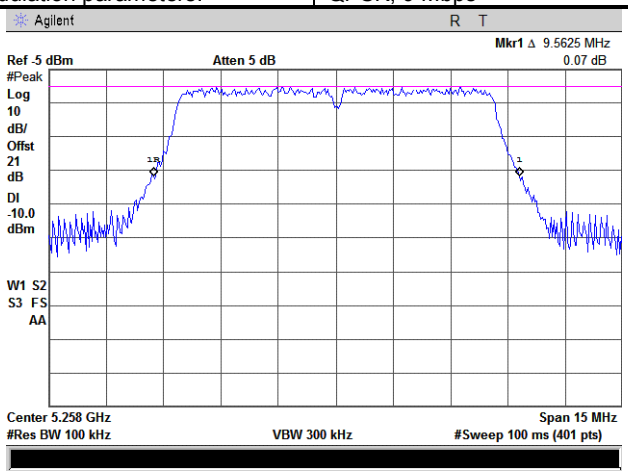
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 3 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.1.83 The 26 dB emission bandwidth, low frequency

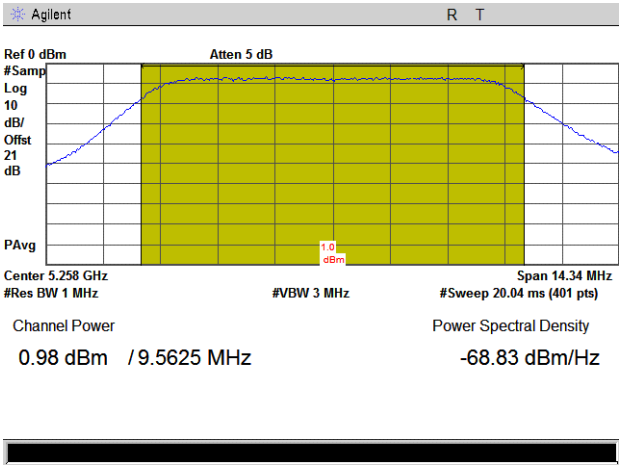
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK, 9 Mbps



Note: The real center frequency is 5257.5 MHz (SA display limitations)

Plot 7.1.84 Power and power density, low frequency

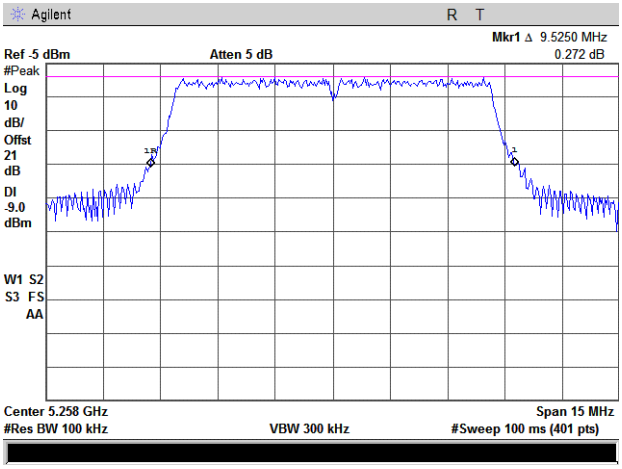
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK, 9 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.1.85 The 26 dB emission bandwidth, low frequency

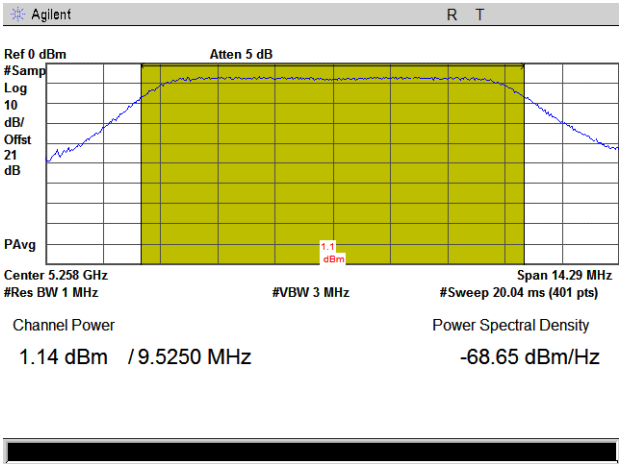
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM, 12 Mbps



Note: The real center frequency is 5257.5 MHz (SA display limitations)

Plot 7.1.86 Power and power density, low frequency

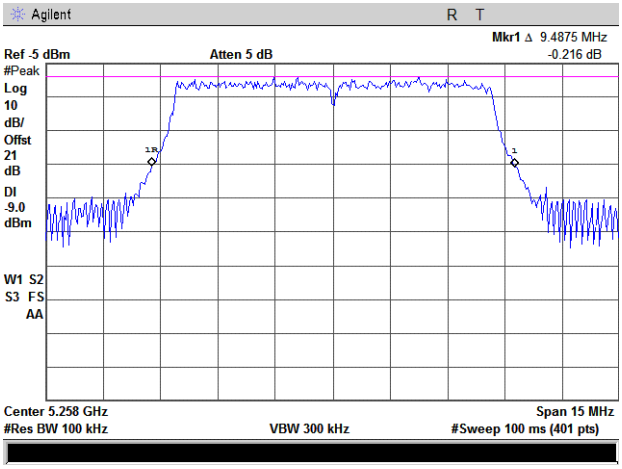
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM, 12 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.1.87 The 26 dB emission bandwidth, low frequency

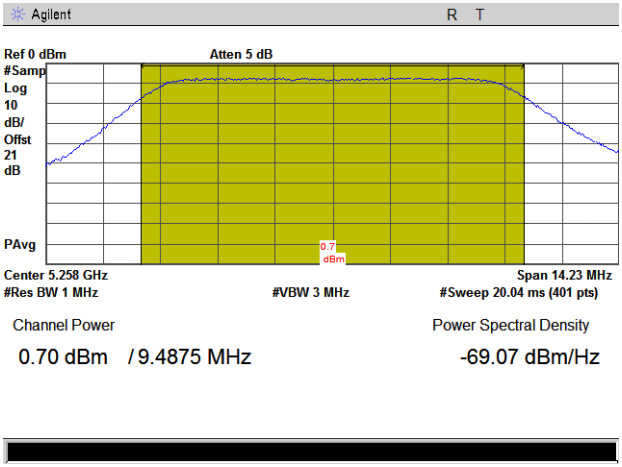
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 27 Mbps



Note: The real center frequency is 5257.5 MHz (SA display limitations)

Plot 7.1.88 Power and power density, low frequency

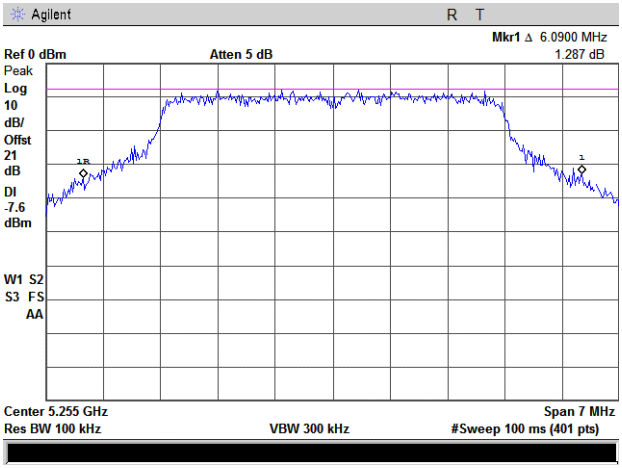
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 27 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

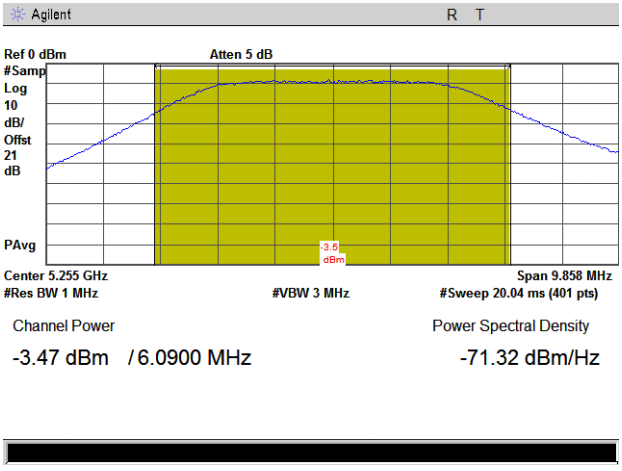
Plot 7.1.89 The 26 dB emission bandwidth, low frequency

Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 1.5 Mbps



Plot 7.1.90 Power and power density, low frequency

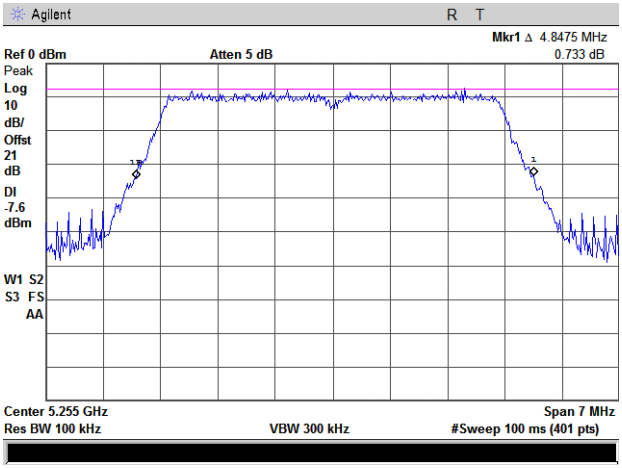
Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 1.5 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

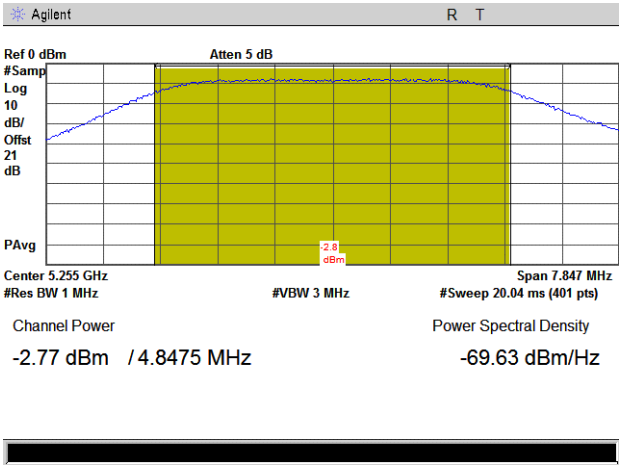
Plot 7.1.91 The 26 dB emission bandwidth, low frequency

Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK, 4.5 Mbps



Plot 7.1.92 Power and power density, low frequency

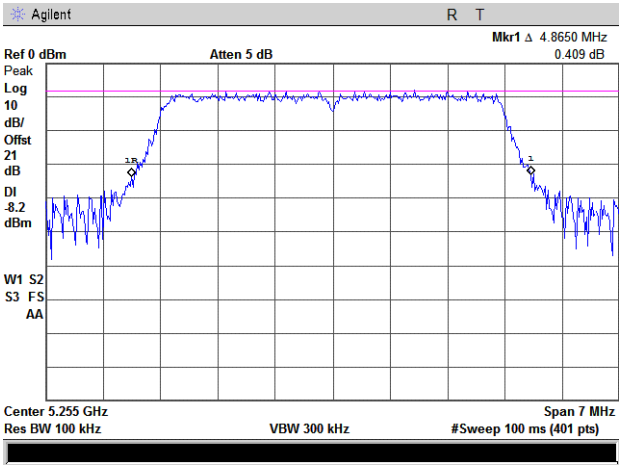
Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK, 4.5 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

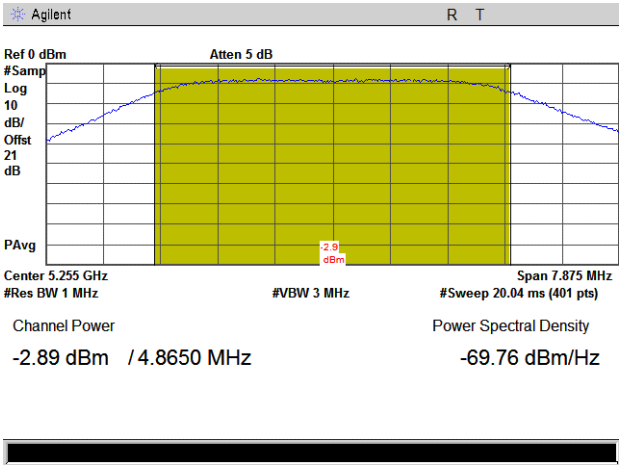
Plot 7.1.93 The 26 dB emission bandwidth, low frequency

Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM, 6 Mbps



Plot 7.1.94 Power and power density, low frequency

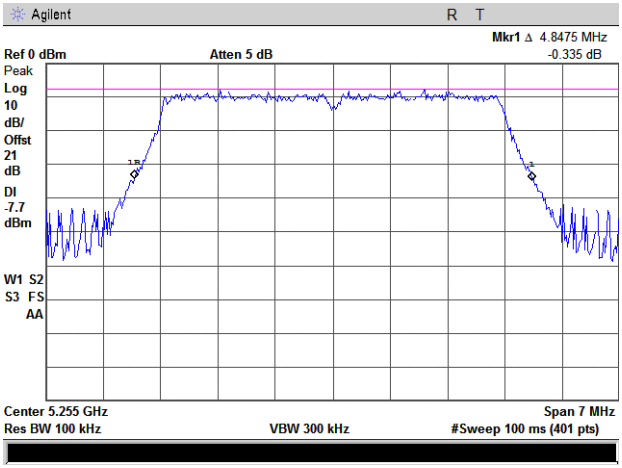
Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM, 6 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

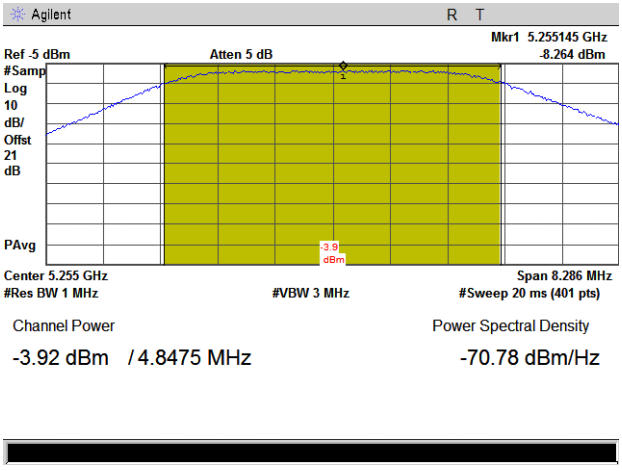
Plot 7.1.95 The 26 dB emission bandwidth, low frequency

Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 13.5 Mbps



Plot 7.1.96 Power and power density, low frequency

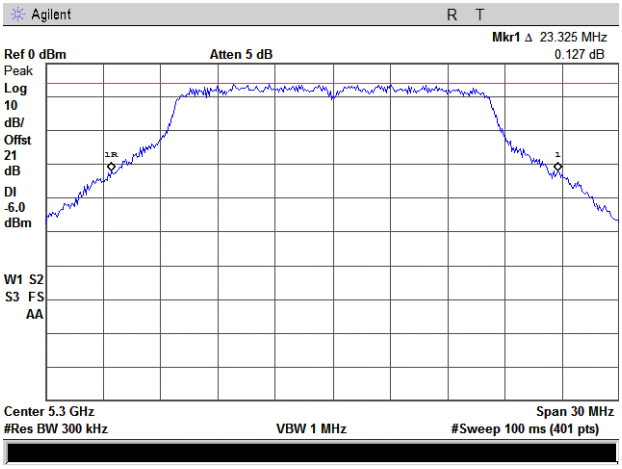
Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 13.5 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

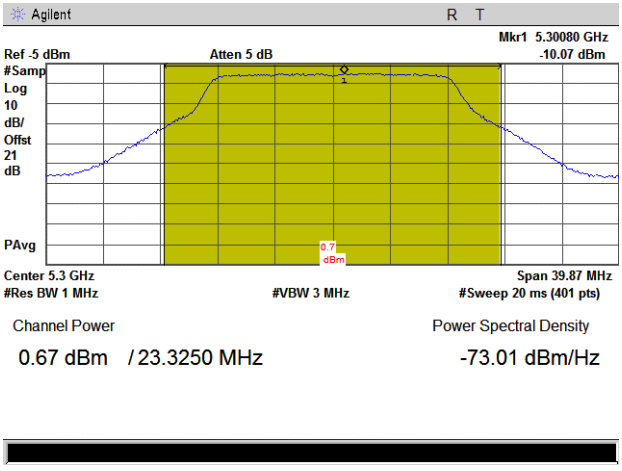
Plot 7.1.97 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 6 Mbps



Plot 7.1.98 Power and power density, mid frequency

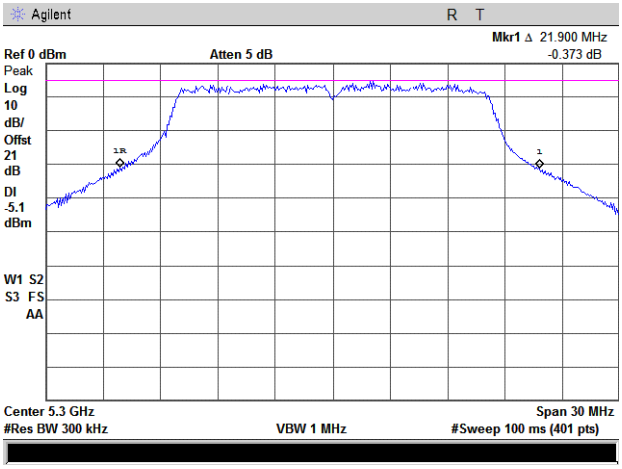
Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 6 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

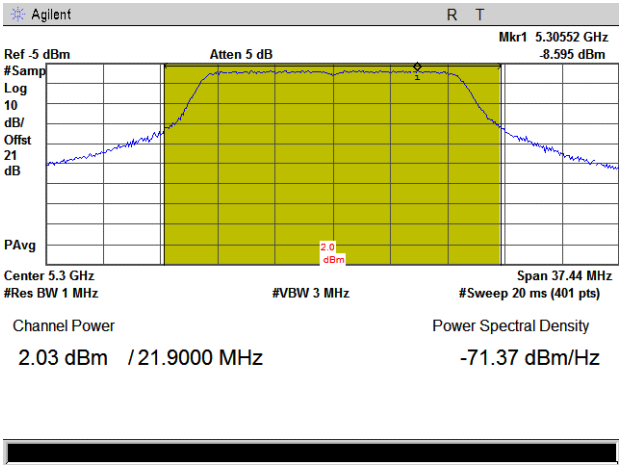
Plot 7.1.99 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK, 18 Mbps



Plot 7.1.100 Power and power density, mid frequency

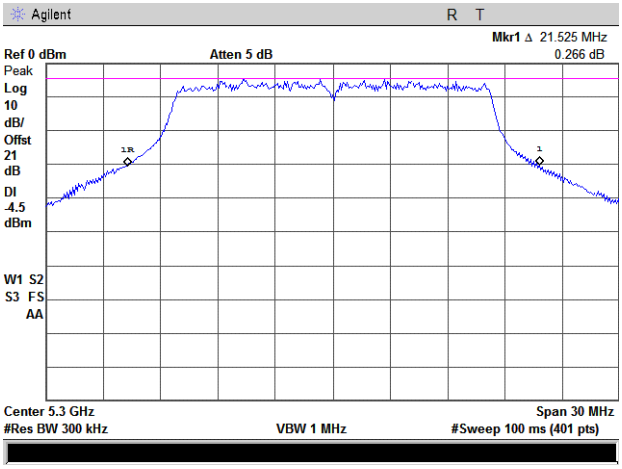
Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK, 18 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

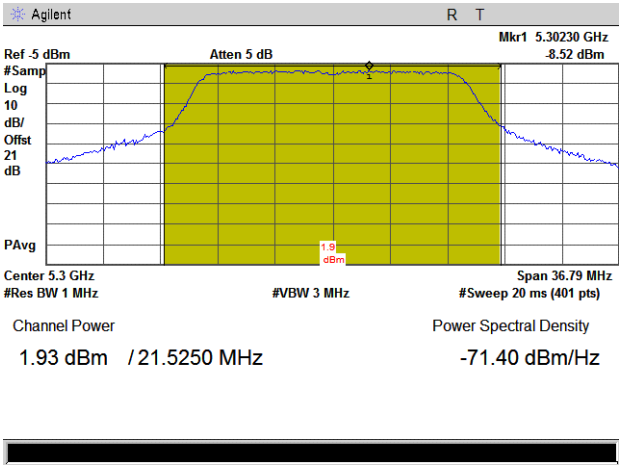
Plot 7.1.101 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM, 24 Mbps



Plot 7.1.102 Power and power density, mid frequency

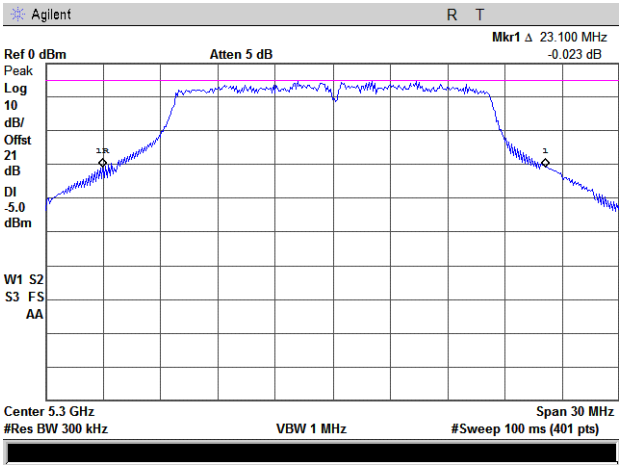
Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM, 24 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

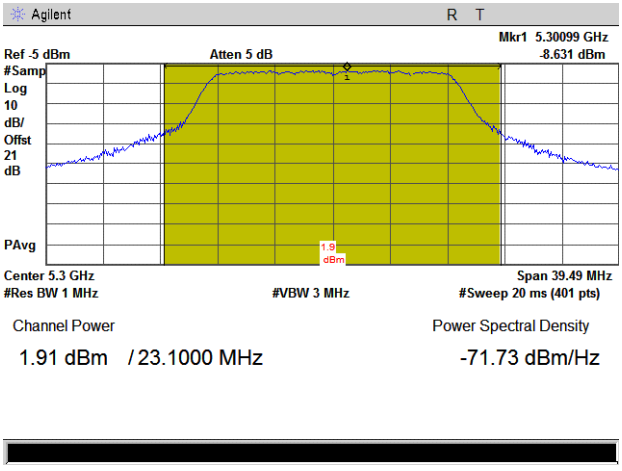
Plot 7.1.103 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 54 Mbps



Plot 7.1.104 Power and power density, mid frequency

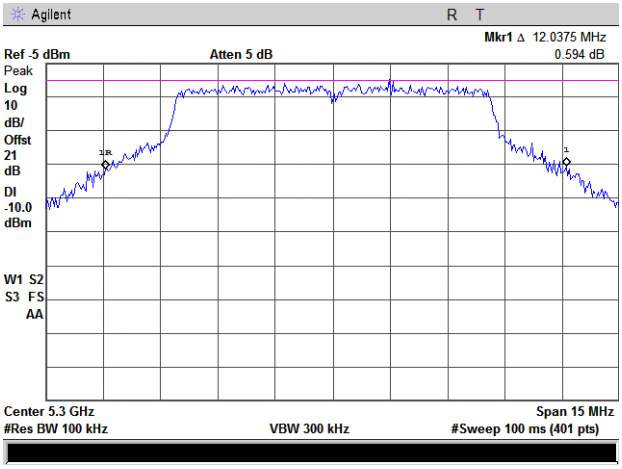
Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 54 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

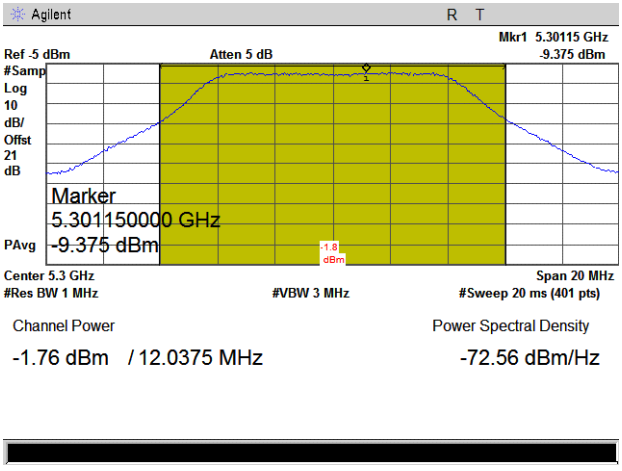
Plot 7.1.105 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 3 Mbps



Plot 7.1.106 Power and power density, mid frequency

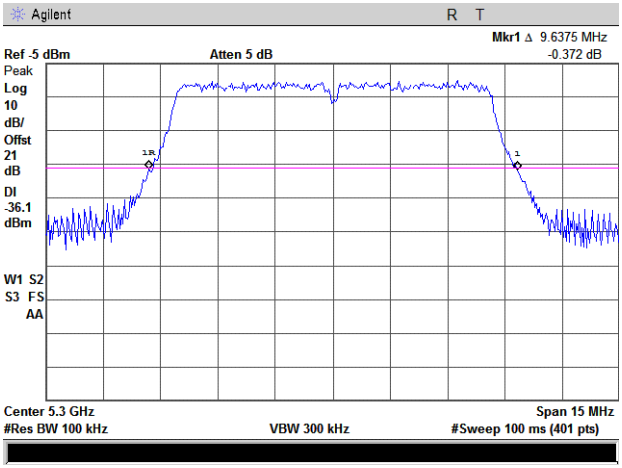
Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 3 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

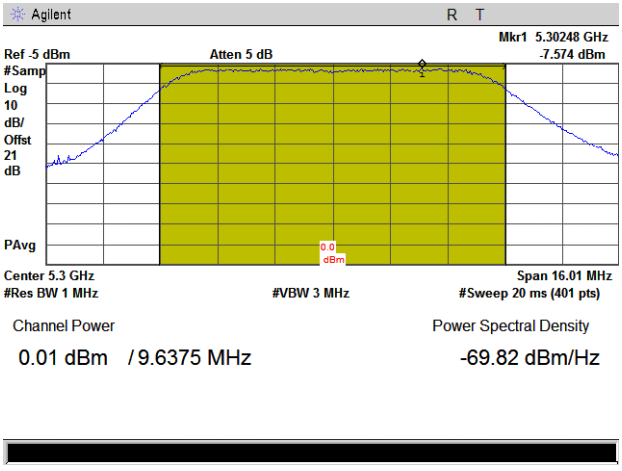
Plot 7.1.107 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK, 9 Mbps



Plot 7.1.108 Power and power density, mid frequency

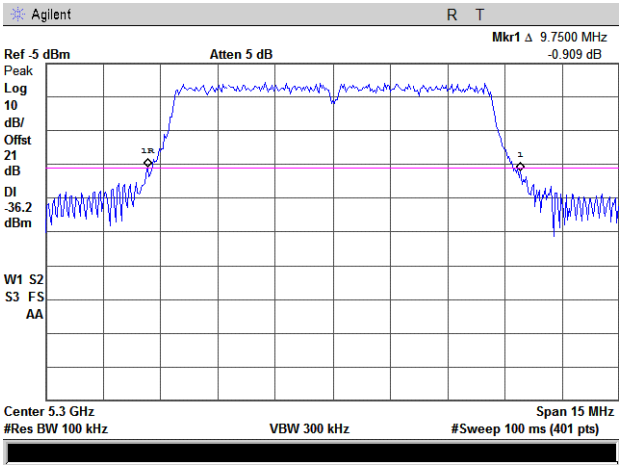
Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK, 9 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

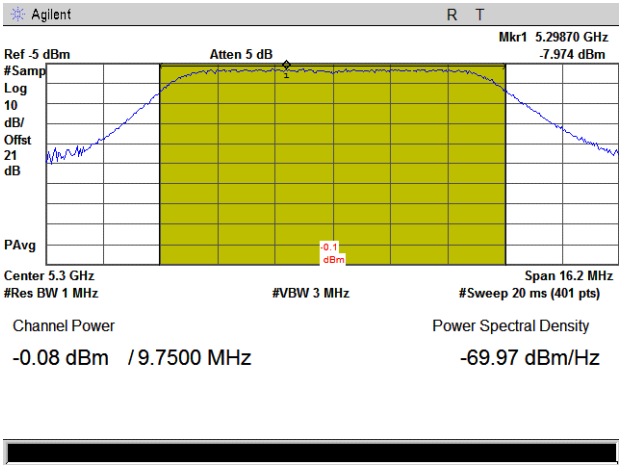
Plot 7.1.109 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM, 12 Mbps



Plot 7.1.110 Power and power density, mid frequency

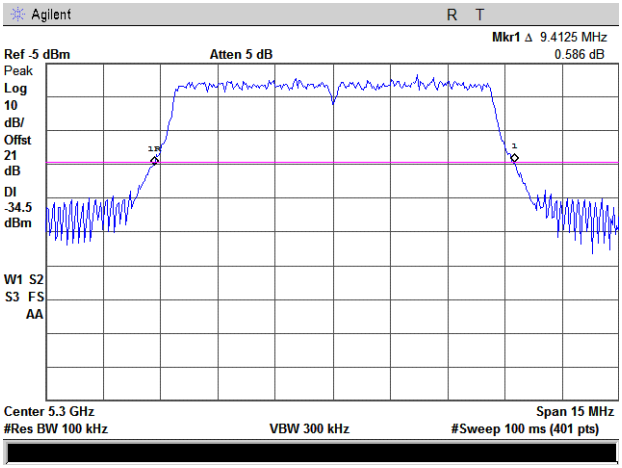
Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM, 12 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

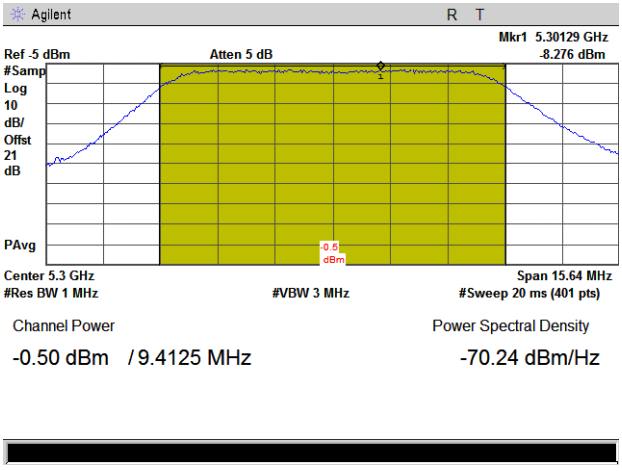
Plot 7.1.111 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 27 Mbps



Plot 7.1.112 Power and power density, mid frequency

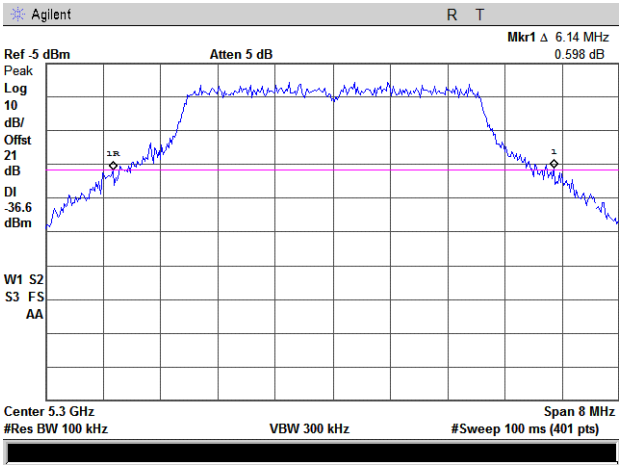
Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 27 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

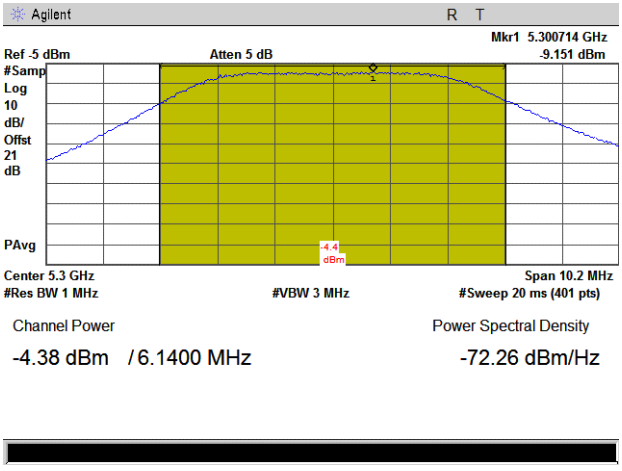
Plot 7.1.113 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 1.5 Mbps



Plot 7.1.114 Power and power density, mid frequency

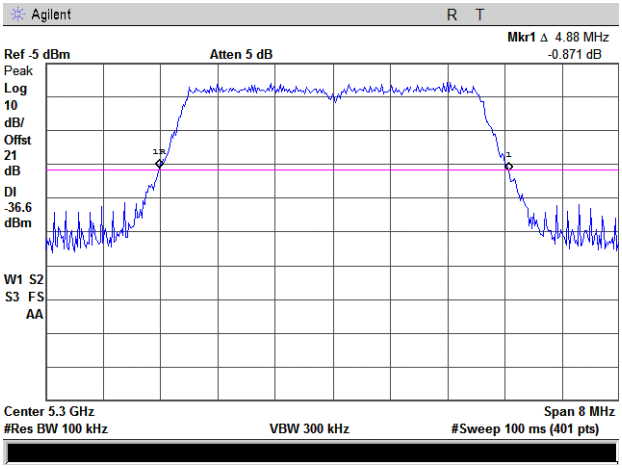
Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 1.5 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

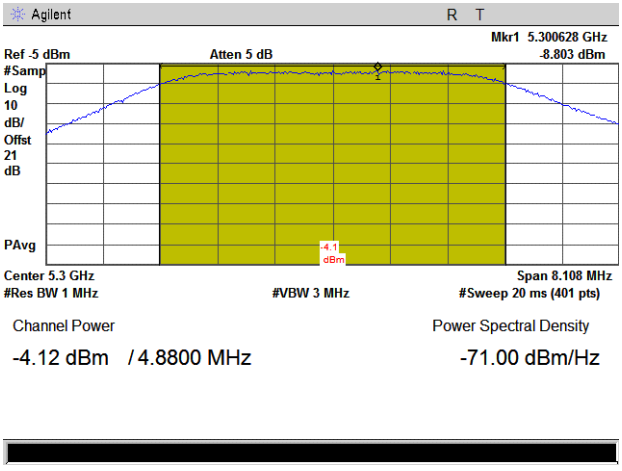
Plot 7.1.115 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK, 4.5 Mbps



Plot 7.1.116 Power and power density, mid frequency

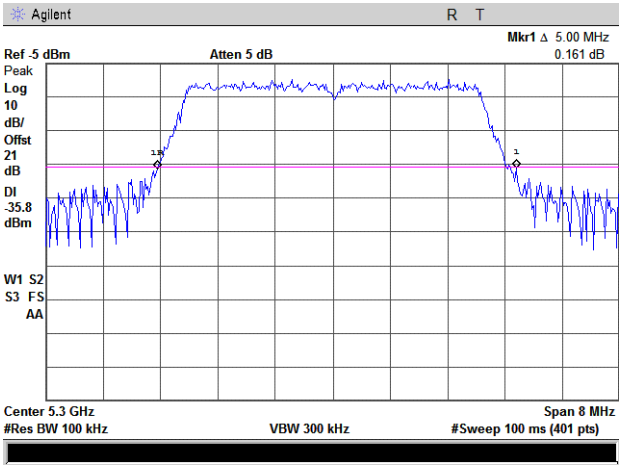
Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK, 4.5 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

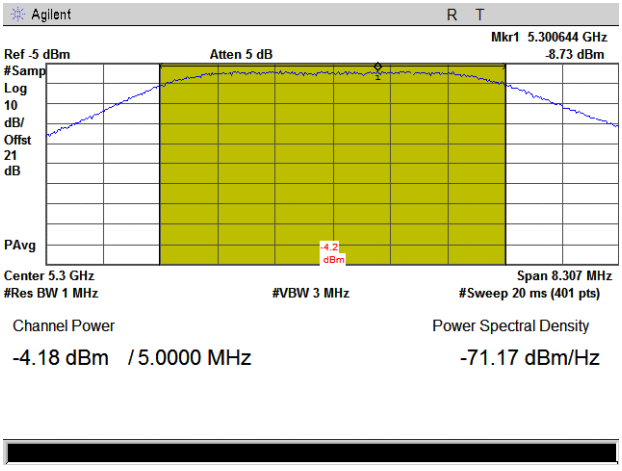
Plot 7.1.117 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM, 6 Mbps



Plot 7.1.118 Power and power density, mid frequency

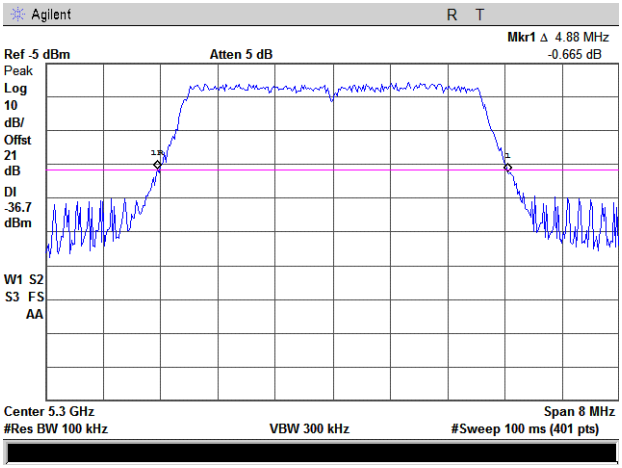
Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM, 6 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

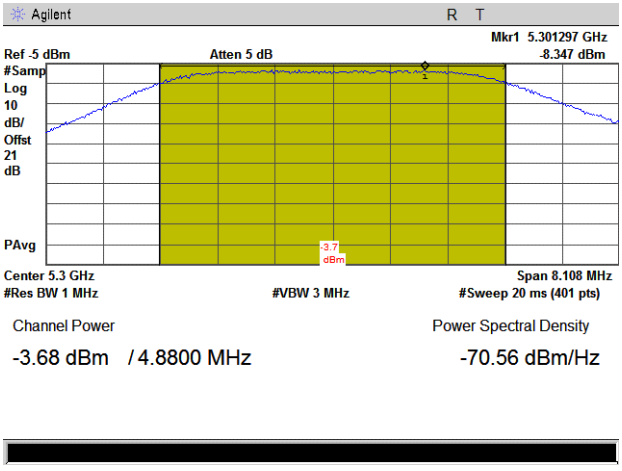
Plot 7.1.119 The 26 dB emission bandwidth, mid frequency

Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 13.5 Mbps



Plot 7.1.120 Power and power density, mid frequency

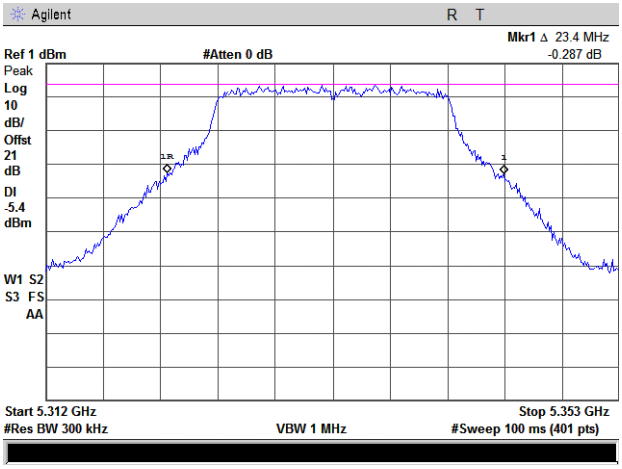
Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 13.5 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

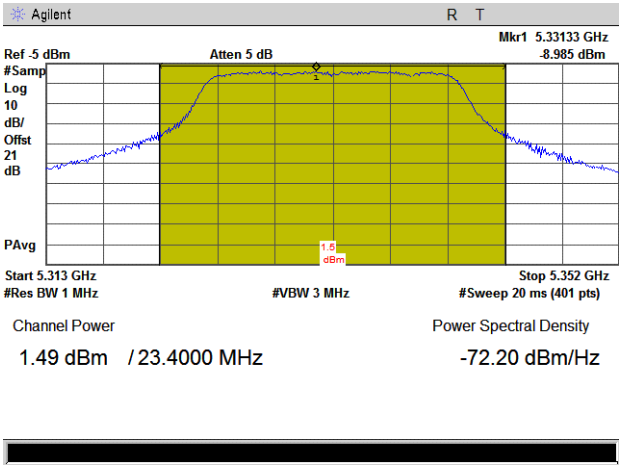
Plot 7.1.121 The 26 dB emission bandwidth, high frequency

Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 6 Mbps



Plot 7.1.122 Power and power density, high frequency

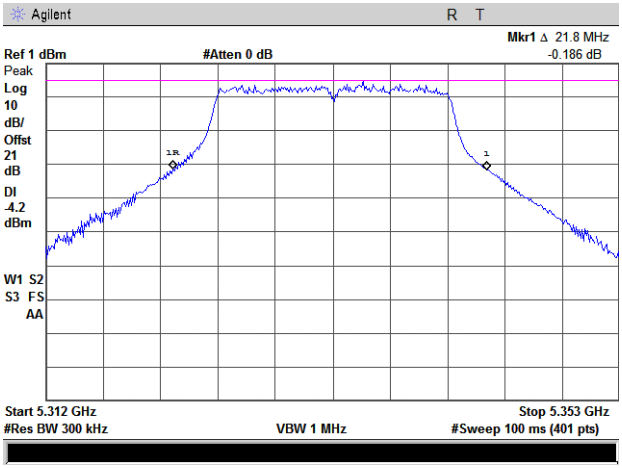
Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 6 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

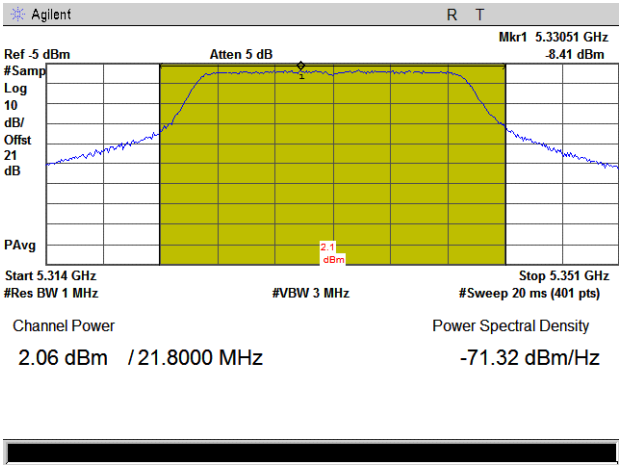
Plot 7.1.123 The 26 dB emission bandwidth, high frequency

Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK, 18 Mbps



Plot 7.1.124 Power and power density, high frequency

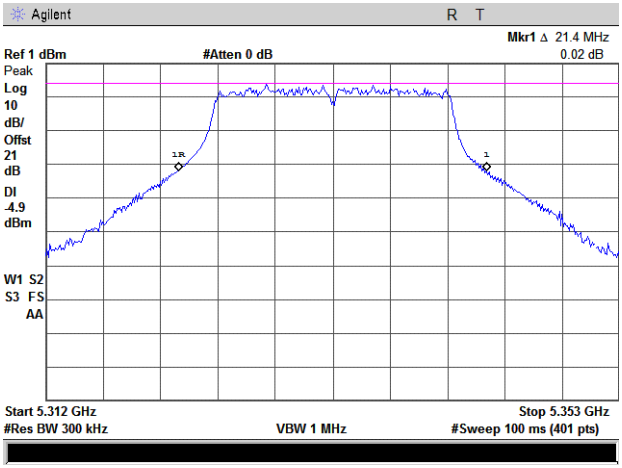
Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK, 18 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

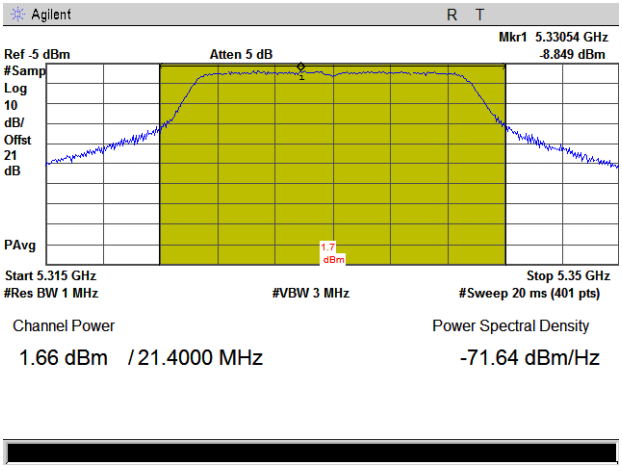
Plot 7.1.125 The 26 dB emission bandwidth, high frequency

Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM, 24 Mbps



Plot 7.1.126 Power and power density, high frequency

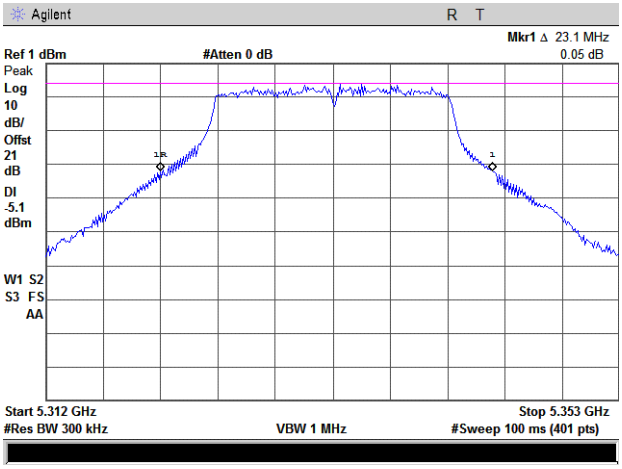
Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM, 24 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

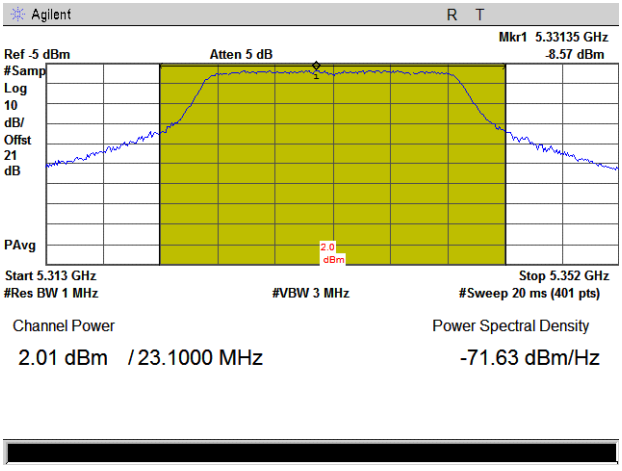
Plot 7.1.127 The 26 dB emission bandwidth, high frequency

Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 54 Mbps



Plot 7.1.128 Power and power density, high frequency

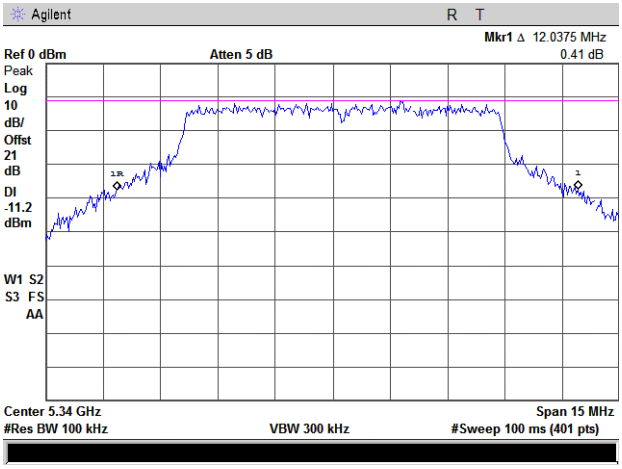
Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 54 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

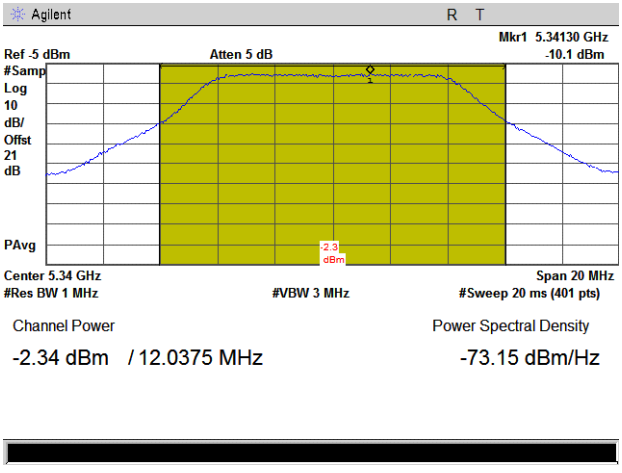
Plot 7.1.129 The 26 dB emission bandwidth, high frequency

Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 3 Mbps



Plot 7.1.130 Power and power density, high frequency

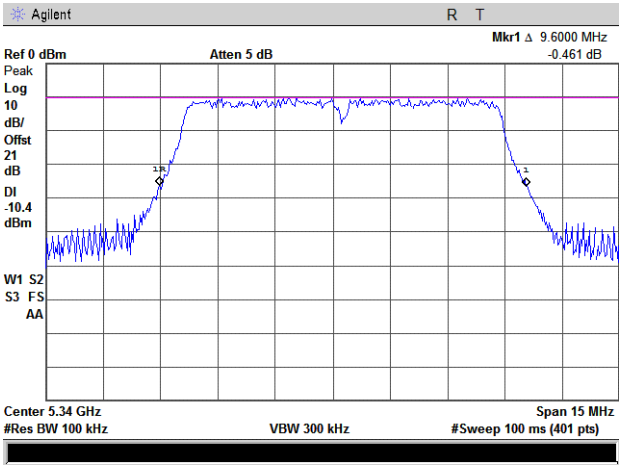
Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 3 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

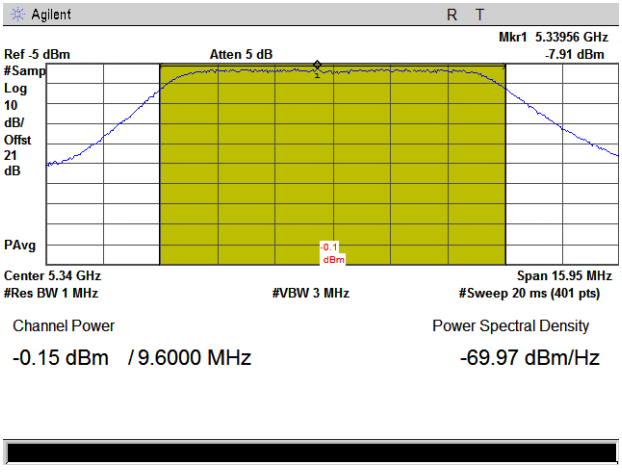
Plot 7.1.131 The 26 dB emission bandwidth, high frequency

Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK, 9 Mbps



Plot 7.1.132 Power and power density, high frequency

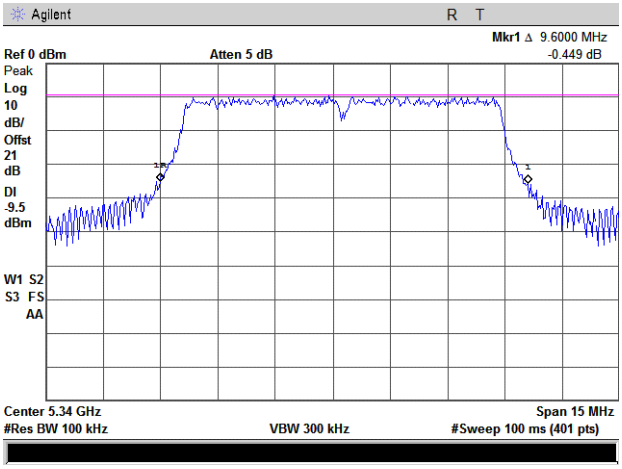
Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK, 9 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

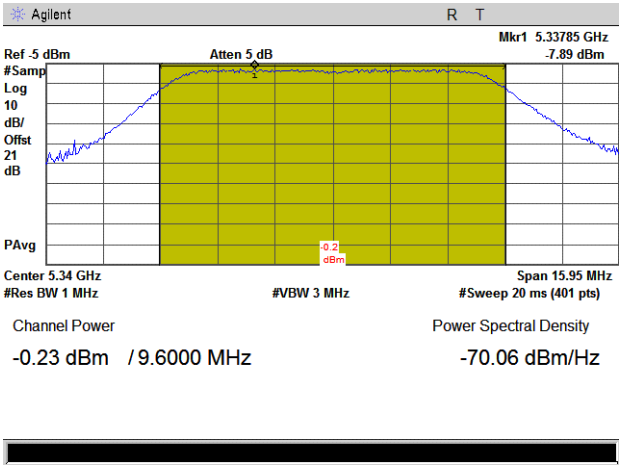
Plot 7.1.133 The 26 dB emission bandwidth, high frequency

Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM, 12 Mbps



Plot 7.1.134 Power and power density, high frequency

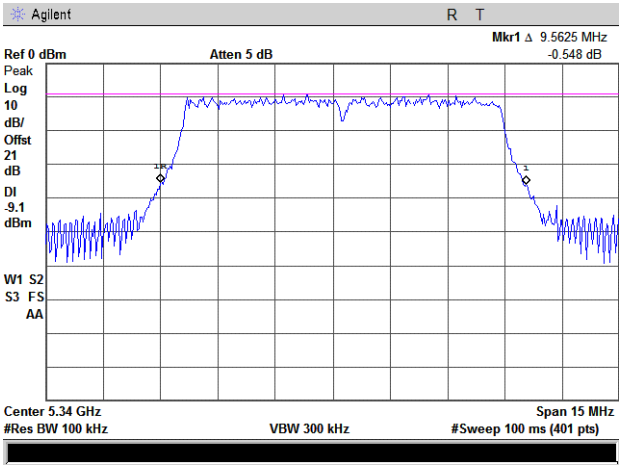
Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM, 12 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

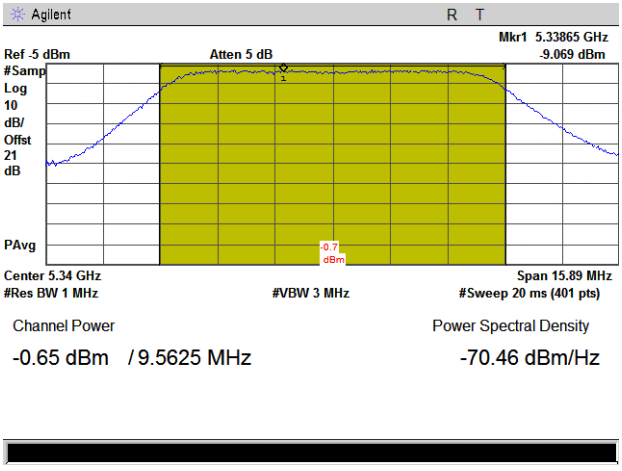
Plot 7.1.135 The 26 dB emission bandwidth, high frequency

Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 27 Mbps



Plot 7.1.136 Power and power density, high frequency

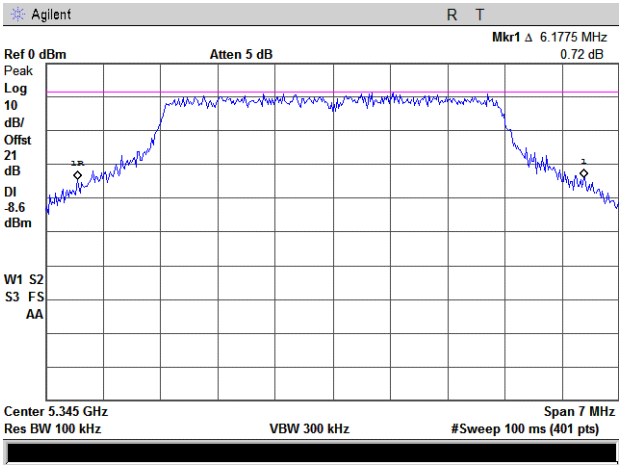
Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 27 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

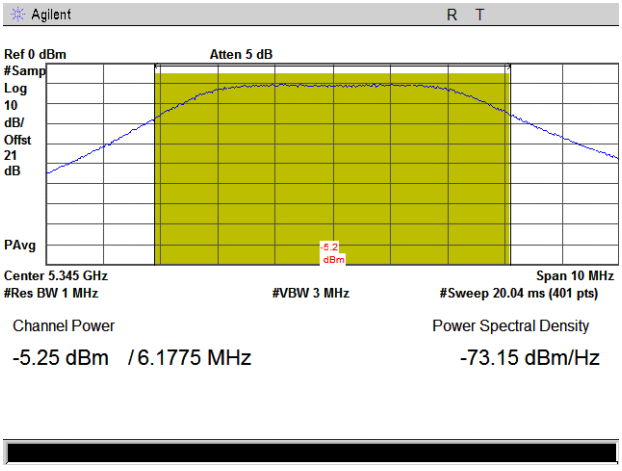
Plot 7.1.137 The 26 dB emission bandwidth, high frequency

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 1.5 Mbps



Plot 7.1.138 Power and power density, high frequency

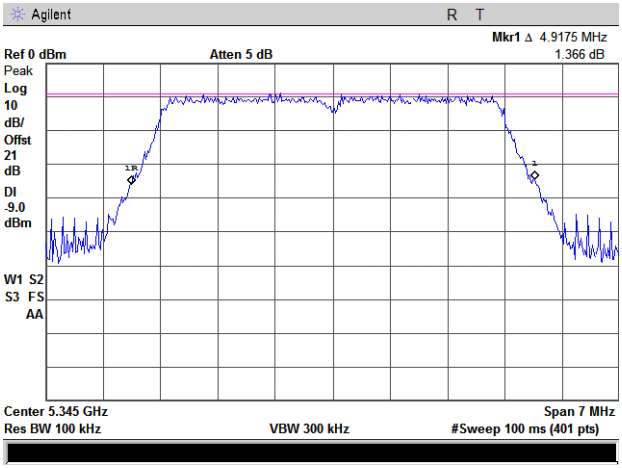
Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 1.5 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

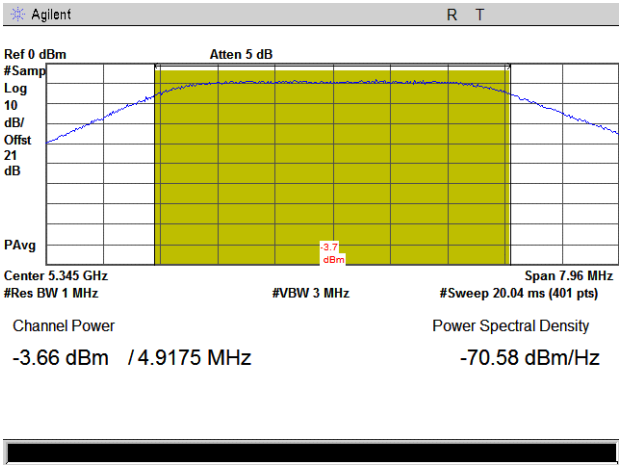
Plot 7.1.139 The 26 dB emission bandwidth, high frequency

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK, 4.5 Mbps



Plot 7.1.140 Power and power density, high frequency

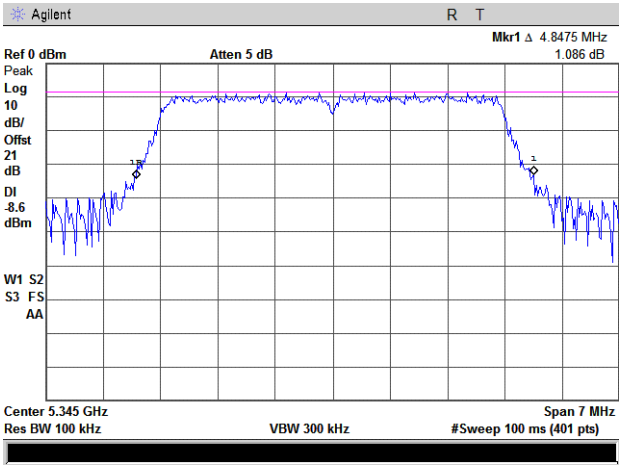
Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK, 4.5 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

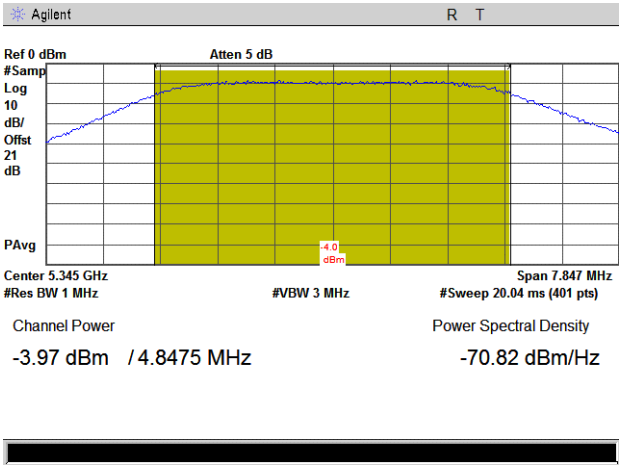
Plot 7.1.141 The 26 dB emission bandwidth, high frequency

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM, 6 Mbps



Plot 7.1.142 Power and power density, high frequency

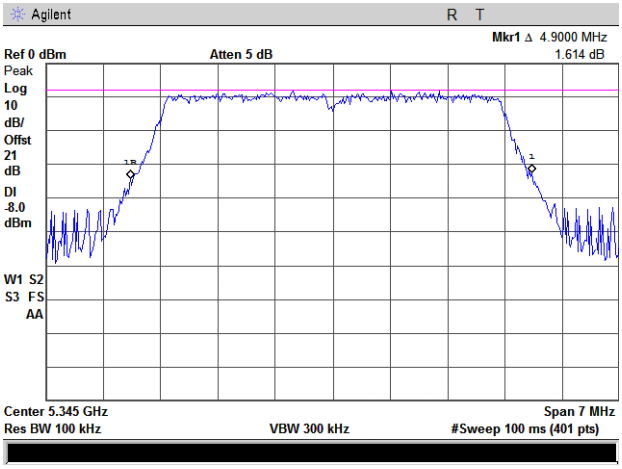
Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM, 6 Mbps



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:	6/03/2008		
Temperature: 24ºC	**Air Pressure:** 1010 hPa	**Relative Humidity:** 54 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

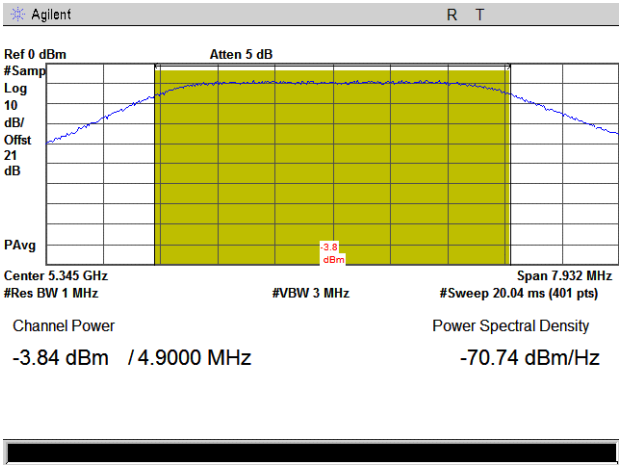
Plot 7.1.143 The 26 dB emission bandwidth, high frequency

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 13.5 Mbps



Plot 7.1.144 Power and power density, high frequency

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 13.5 Mbps



Test specification:	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:	6/15/2008		
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
5250 - 5350	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.

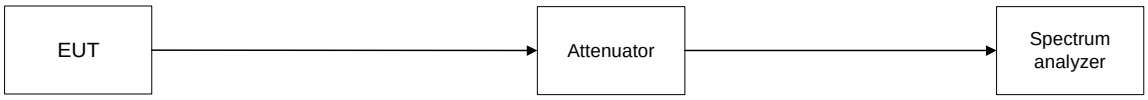
7.2.2.2 The EUT was adjusted to produce maximum available to end user RF output power.

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.

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

7.2.2.5 The test results were recorded in Table 7.2.2, Table 7.2.3 and shown in the associated plots.

Figure 7.2.1 Peak excursion test setup



Test specification:	**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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Table 7.2.2 Peak excursion test results

ASSIGNED FREQUENCY RANGE: 5250 – 5350 MHz
DETECTOR USED: 1-st trace : Peak, Max Hold
2-nd trace : Sample, 100 Power Averaging
TRANSMITTER OUTPUT POWER SETTINGS: "2 dBm" at 5 MHz channel bandwidth
"5 dBm" at 10 MHz channel bandwidth
"8 dBm" at 20 MHz channel bandwidth
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, CBW 20 MHz							
5262.5	6	0.461	-9.335	9.796	13	-3.204	Pass
5262.5	18	0.931	-8.241	9.172	13	-3.828	Pass
5262.5	24	2.23	-8.043	10.273	13	-2.727	Pass
5262.5	54	2.044	-8.839	10.883	13	-2.117	Pass
Low channel, CBW 10 MHz							
5257.5	3	0.767	-9.504	10.271	13	-2.729	Pass
5257.5	9	2.989	-7.319	10.308	13	-2.692	Pass
5257.5	12	4.131	-7.374	11.505	13	-1.495	Pass
5257.5	27	3.663	-7.793	11.456	13	-1.544	Pass
Low channel, CBW 5 MHz							
5255	1.5	0.065	-9.852	9.917	13	-3.083	Pass
5255	4.5	1.954	-8.684	10.638	13	-2.362	Pass
5255	6	2.732	-8.646	11.378	13	-1.622	Pass
5255	13.5	2.732	-8.354	11.086	13	-1.914	Pass
Mid channel, CBW 20 MHz							
5300	6	-0.811	-11.050	10.239	13	-2.761	Pass
5300	18	0.191	-9.254	9.445	13	-3.555	Pass
5300	24	0.296	-9.684	9.98	13	-3.020	Pass
5300	54	2.008	-8.256	10.264	13	-2.736	Pass
Mid channel, CBW 10 MHz							
5300	3	0.087	-10.260	10.347	13	-2.653	Pass
5300	9	2.277	-7.908	10.185	13	-2.815	Pass
5300	12	3.372	-8.279	11.651	13	-1.349	Pass
5300	27	3.257	-8.455	11.712	13	-1.288	Pass
Mid channel, CBW 5 MHz							
5300	1.5	0.888	-9.95	10.838	13	-2.162	Pass
5300	4.5	1.172	-9.268	10.44	13	-2.56	Pass
5300	6	2.598	-8.936	11.534	13	-1.466	Pass
5300	13.5	1.931	-9.128	11.059	13	-1.941	Pass

*****- Margin = Peak excursion – specification limit.

Test specification:	**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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Table 7.2.2 Peak excursion test results (continued)

Frequency, MHz	Bit Rate, MBps	1-st trace, dBm	2-nd trace, dBm	Peak excursion, dB	Limit, dB	Margin, dB	Verdict
High channel, CBW 20 MHz							
5332.5	6	-0.942	-11.630	10.688	13	-2.312	Pass
5332.5	18	0.612	-8.716	9.328	13	-3.672	Pass
5332.5	24	1.501	-8.820	10.321	13	-2.679	Pass
5332.5	54	2.891	-8.258	11.149	13	-1.851	Pass
High channel, CBW 10 MHz							
5340	3	-0.169	-10.450	10.281	13	-2.719	Pass
5340	9	2.033	-8.400	10.433	13	-2.567	Pass
5340	12	3.597	-7.960	11.557	13	-1.443	Pass
5340	27	2.565	-7.596	10.161	13	-2.839	Pass
High channel, CBW 5 MHz							
5345	1.5	-0.965	-9.987	9.022	13	-3.978	Pass
5345	4.5	1.015	-9.196	10.211	13	-2.789	Pass
5345	6	1.601	-10.030	11.631	13	-1.369	Pass
5345	13.5	1.604	-9.773	11.377	13	-1.623	Pass

*****- Margin = Peak excursion – specification limit.

Reference numbers of test equipment used

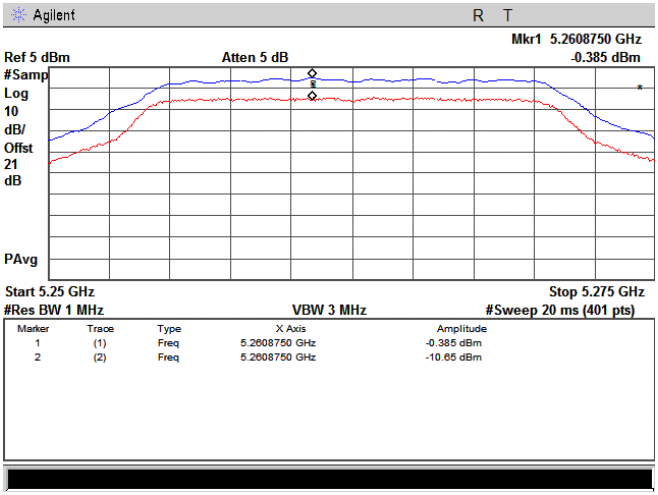
HL 2909	HL 2951	HL 3179					

Full description is given in Appendix A.

Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with internal antenna			

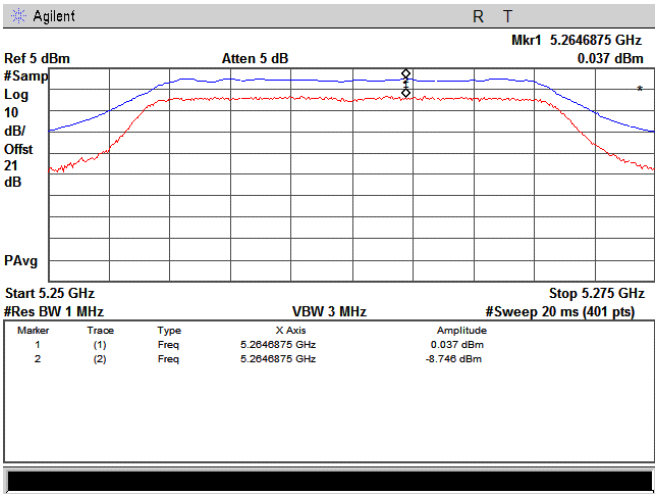
Plot 7.2.1 Peak excursion measurements

Frequency: 5262.5 MHz
Channel BW: 20 MHz
Modulation parameters: BPSK; 6 MBps



Plot.7.2.2 Peak excursion measurement

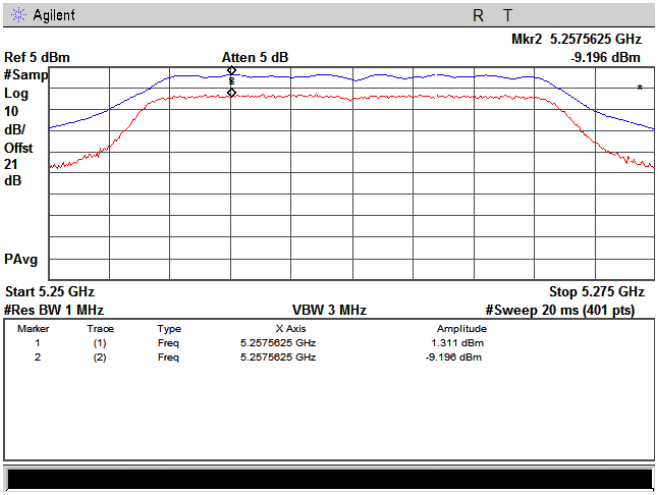
Frequency: 5262.5 MHz
Channel BW: 20 MHz
Modulation parameters: QPSK; 18 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with internal antenna			

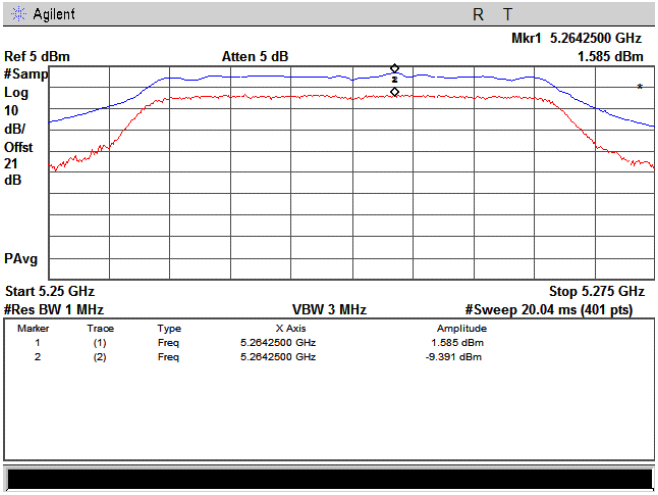
Plot.7.2.3 Peak excursion measurement

Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM; 24 MBps



Plot.7.2.4 Peak excursion measurement

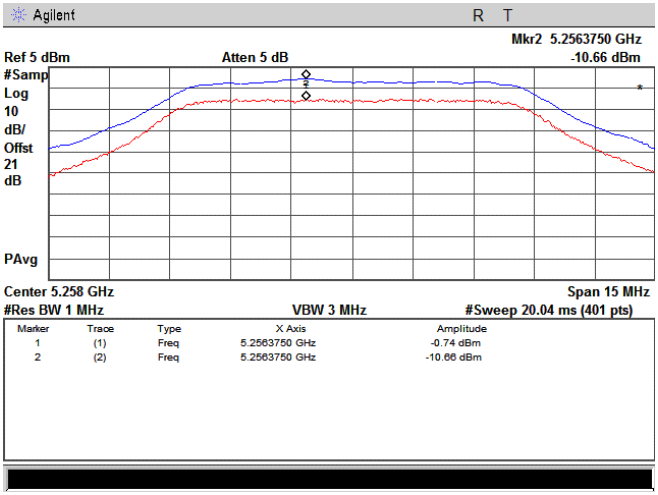
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM; 54 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

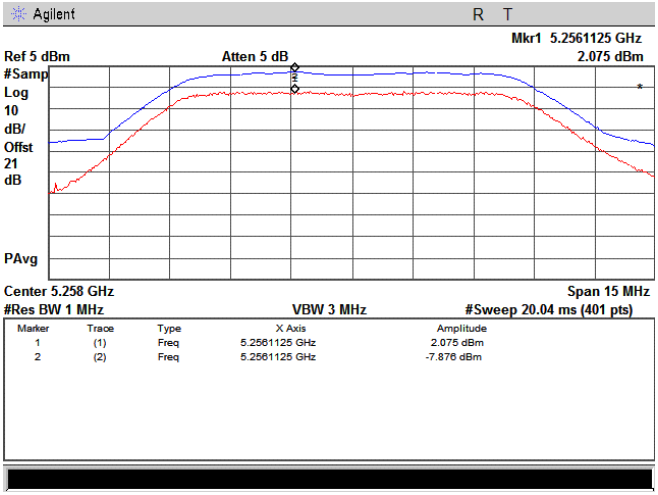
Plot 7.2.5 Peak excursion measurement

Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK; 3 MBps



Plot 7.2.6 Peak excursion measurement

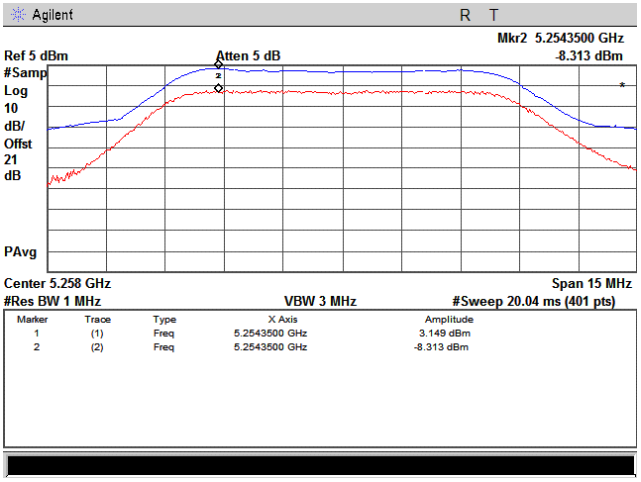
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 9 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with internal antenna			

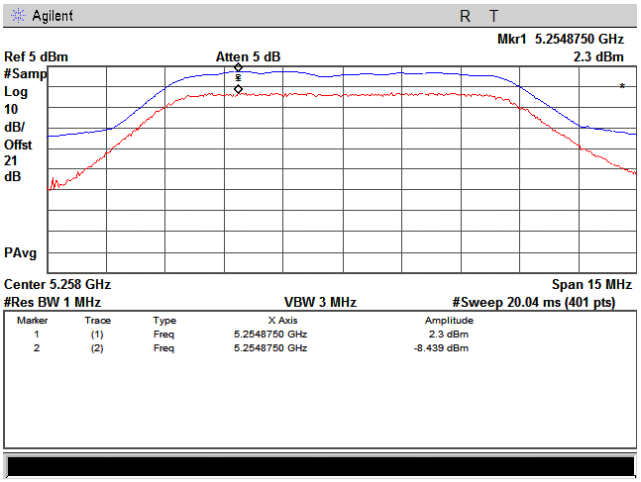
Plot 7.2.7 Peak excursion measurement

Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM; 12 MBps



Plot 7.2.8 Peak excursion measurement

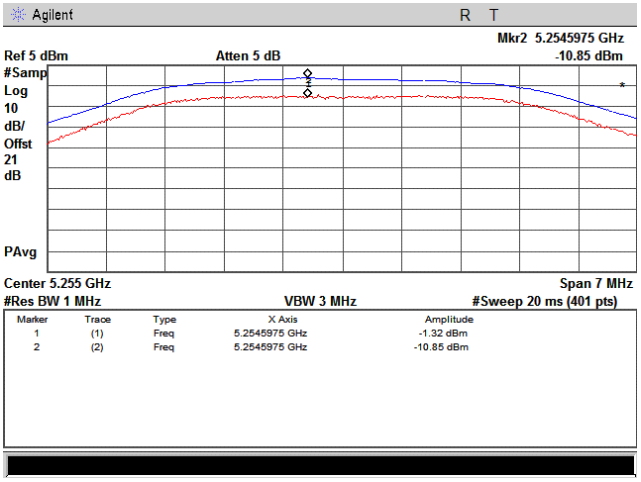
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM; 27 MBps



Test specification:	**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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

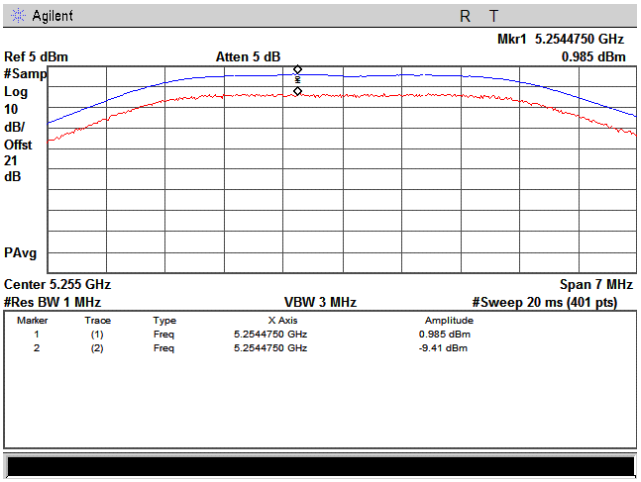
Plot 7.2.9 Peak excursion measurement

Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK; 1.5 MBps



Plot 7.2.10 Peak excursion measurement

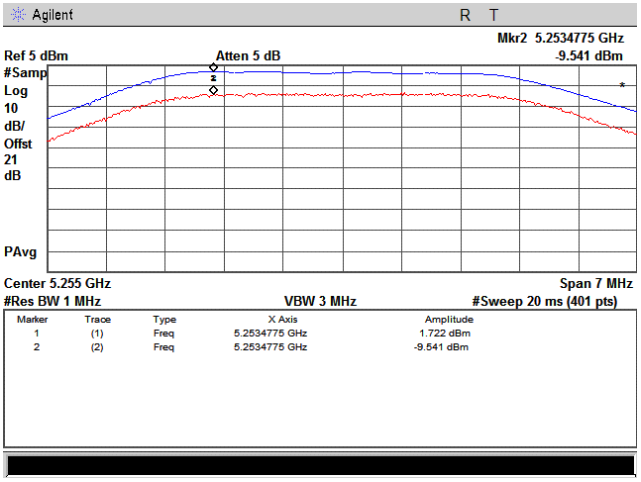
Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK; 4.5 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with internal antenna			

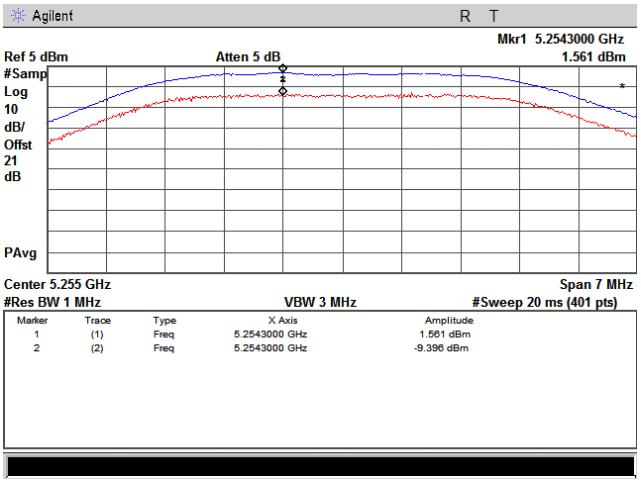
Plot 7.2.11 Peak excursion measurement

Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM; 6 MBps



Plot 7.2.12 Peak excursion measurement

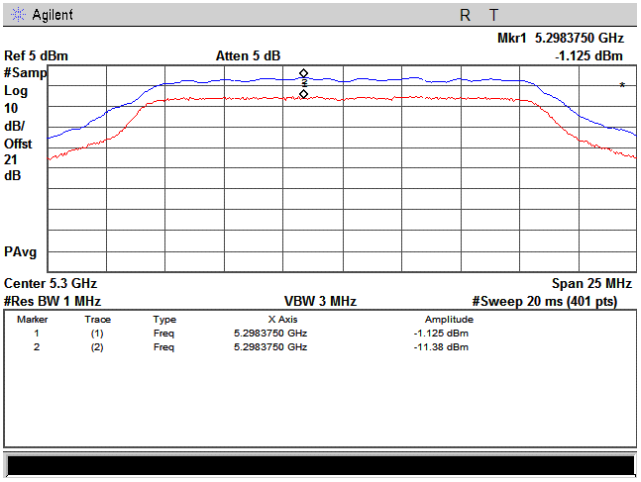
Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 13.5 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

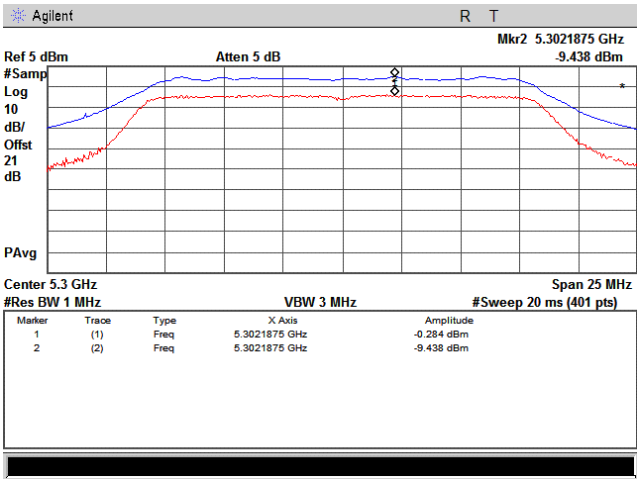
Plot 7.2.13 Peak excursion measurement

Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK; 6 MBps



Plot 7.2.14 Peak excursion measurement

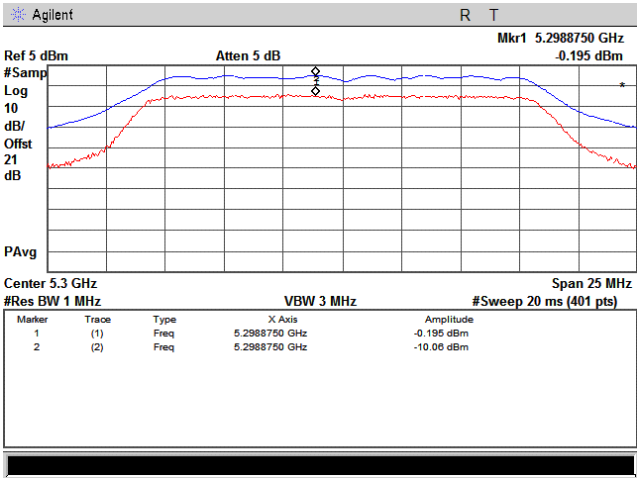
Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK; 18 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with internal antenna			

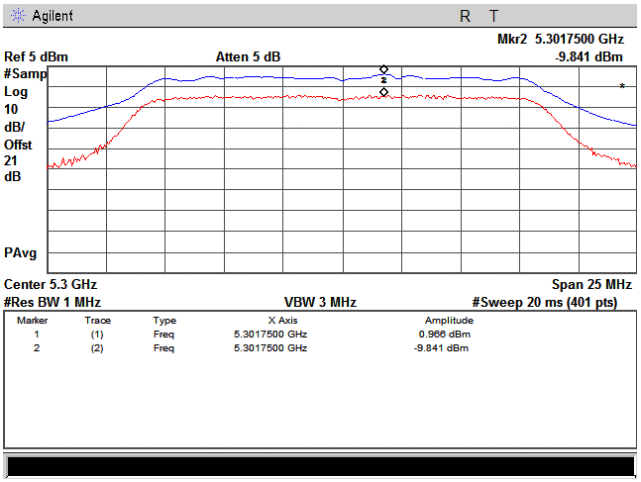
Plot 7.2.15 Peak excursion measurement

Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM; 24 MBps



Plot 7.2.16 Peak excursion measurement

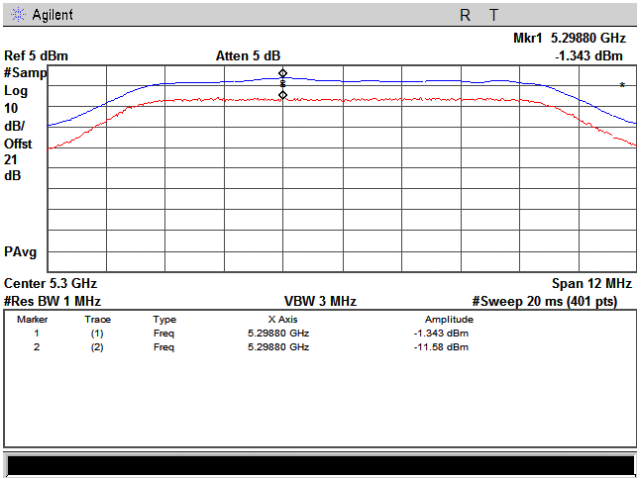
Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM; 54 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with internal antenna			

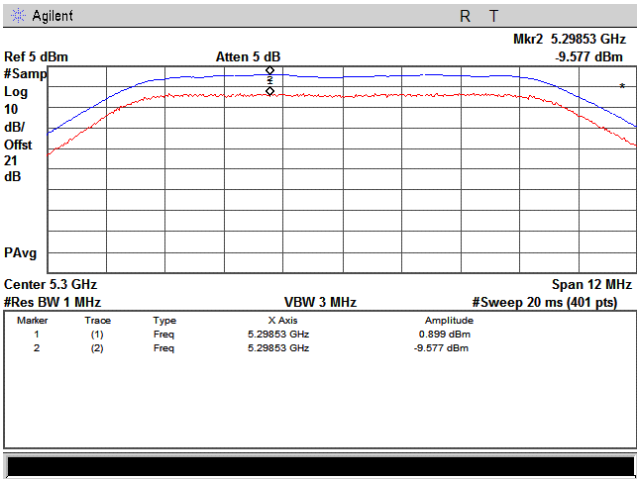
Plot 7.2.17 Peak excursion measurement

Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK; 3 MBps



Plot 7.2.18 Peak excursion measurement

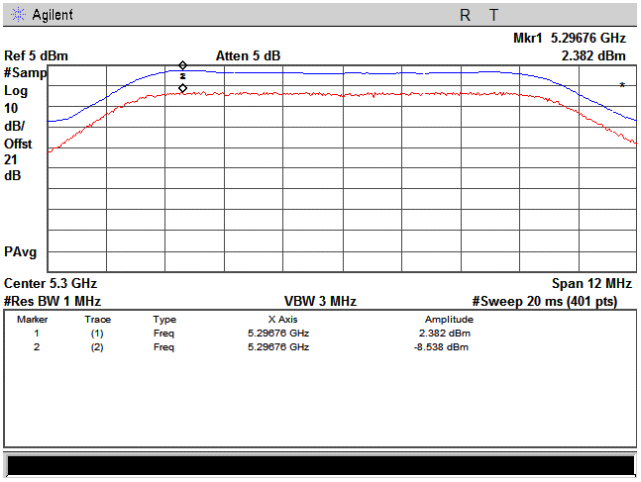
Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 9 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with internal antenna			

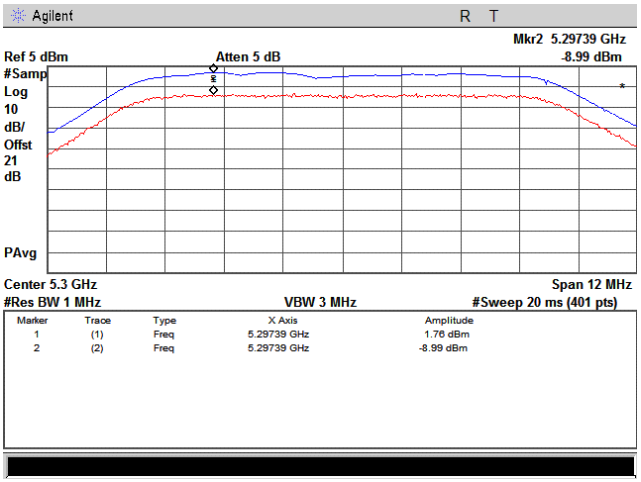
Plot 7.2.19 Peak excursion measurement

Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM; 12 MBps



Plot 7.2.20 Peak excursion measurement

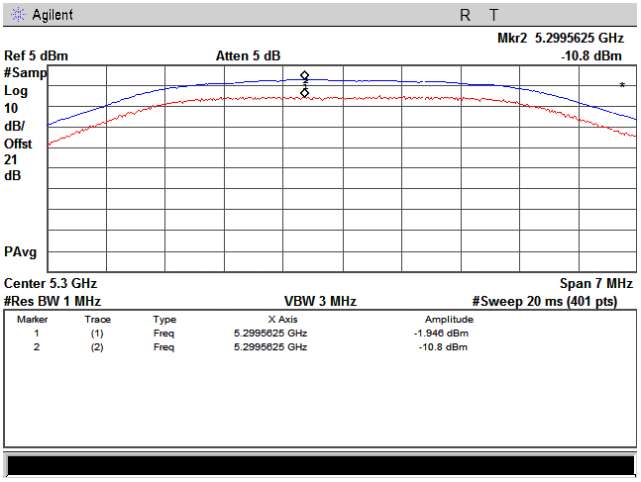
Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM; 27 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with internal antenna			

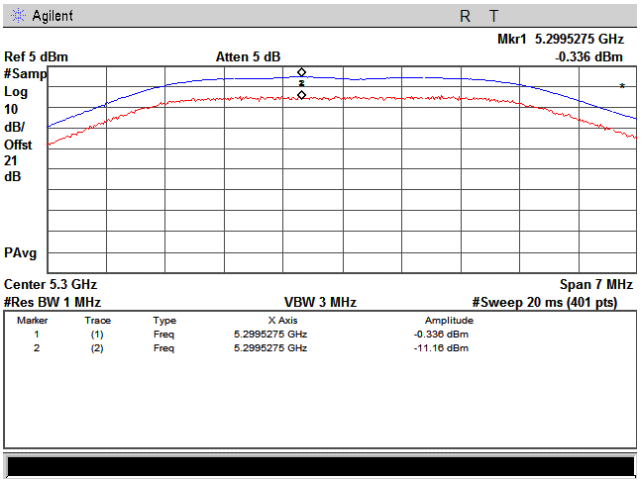
Plot 7.2.21 Peak excursion measurement

Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK; 1.5 MBps



Plot 7.2.22 Peak excursion measurement

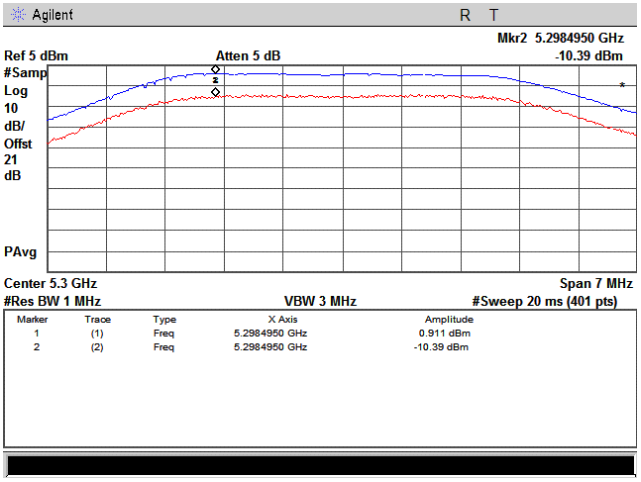
Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK; 4.5 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

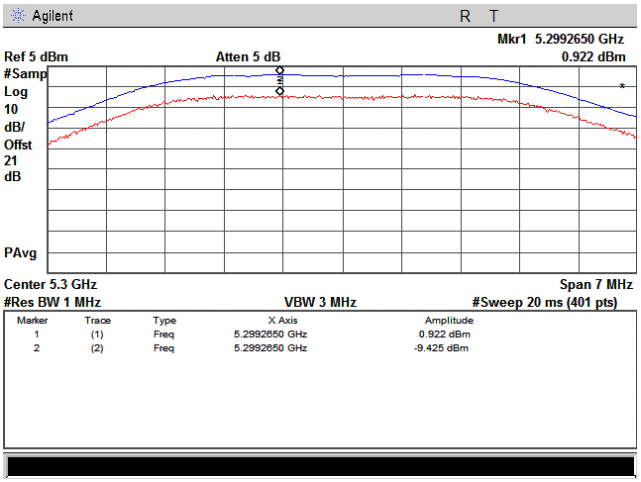
Plot 7.2.23 Peak excursion measurement

Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM; 6 MBps



Plot 7.2.24 Peak excursion measurement

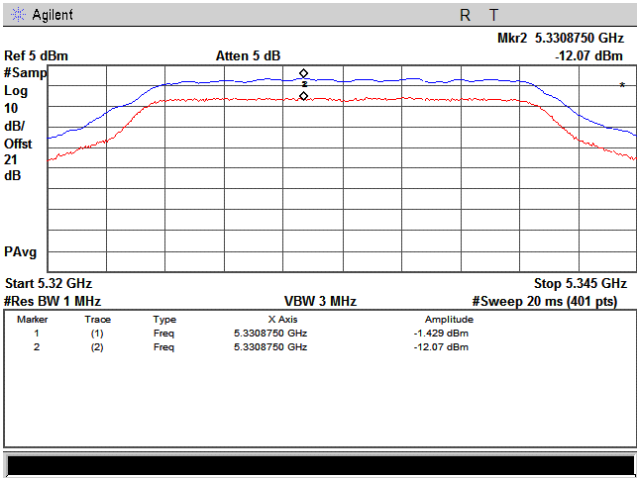
Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 13.5 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

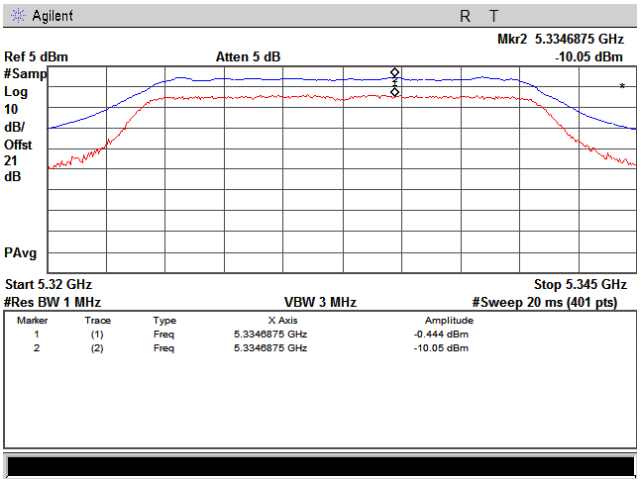
Plot 7.2.25 Peak excursion measurement

Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK; 6 MBps



Plot 7.2.26 Peak excursion measurement

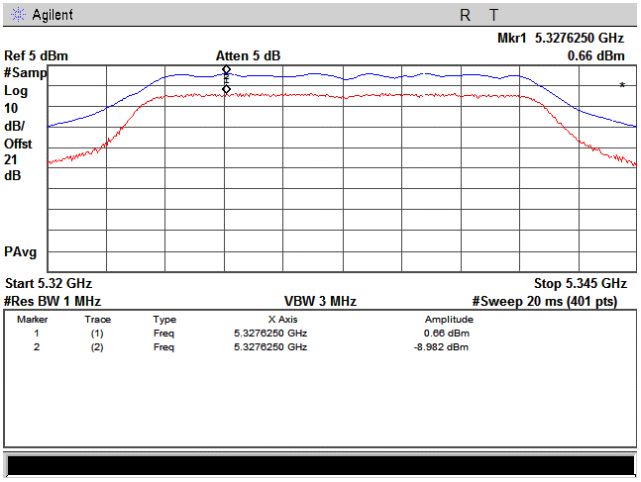
Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK; 18 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

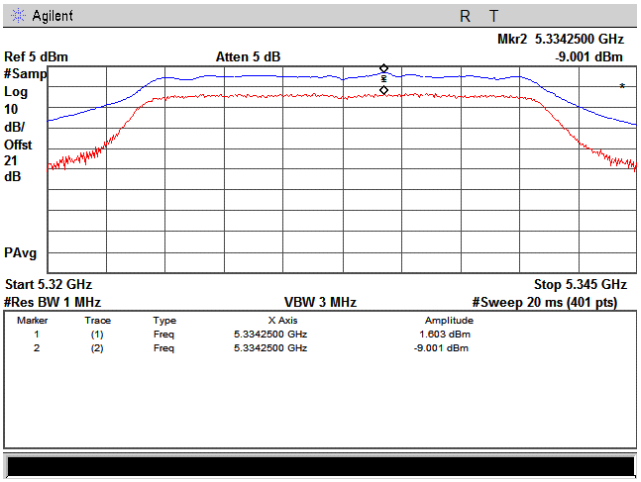
Plot 7.2.27 Peak excursion measurement

Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM; 24 MBps



Plot 7.2.28 Peak excursion measurement

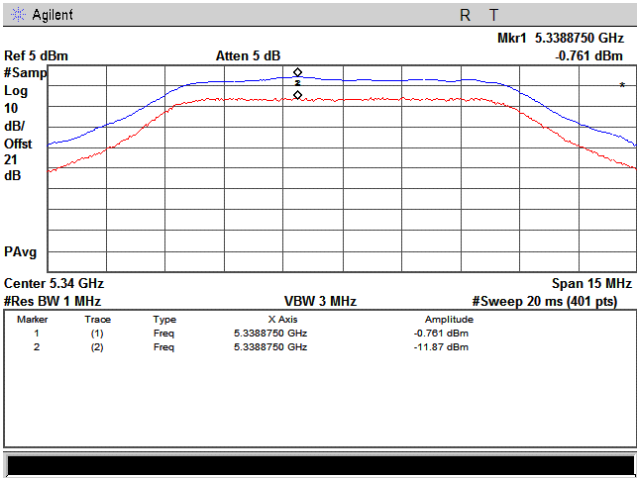
Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM; 54 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with internal antenna			

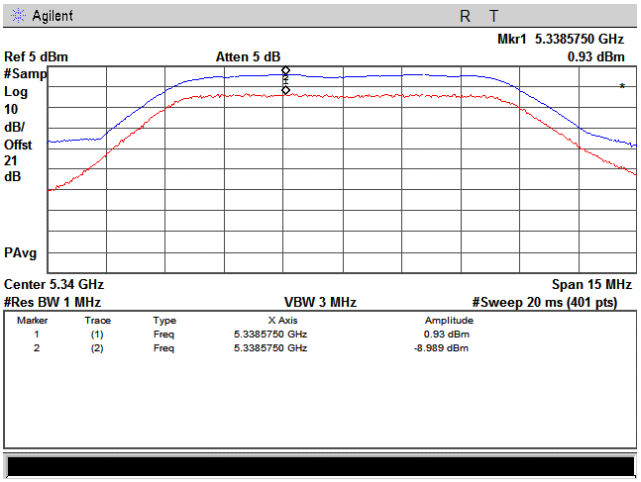
Plot 7.2.29 Peak excursion measurement

Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK; 3 MBps



Plot 7.2.30 Peak excursion measurement

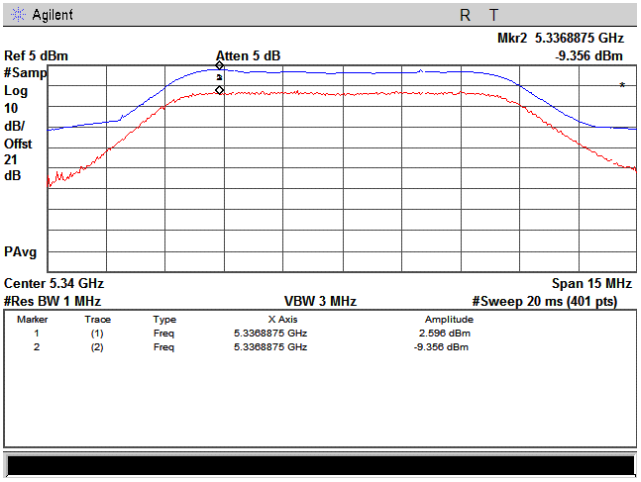
Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 9 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

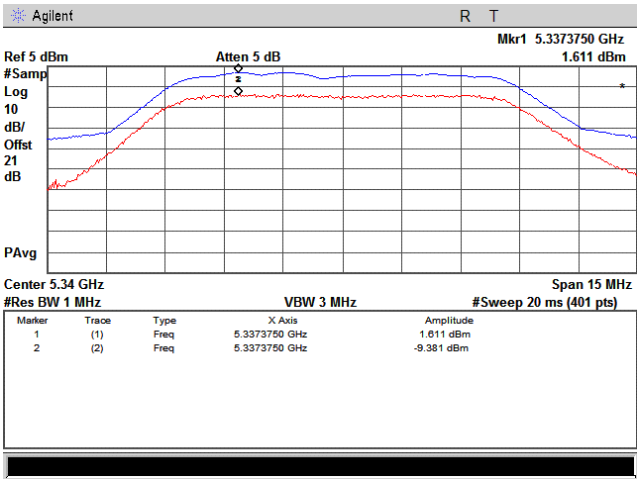
Plot 7.2.31 Peak excursion measurement

Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM; 12 MBps



Plot 7.2.32 Peak excursion measurement

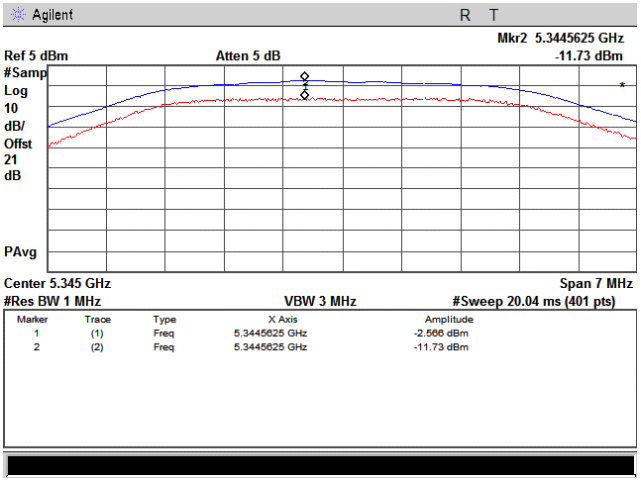
Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM; 27 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

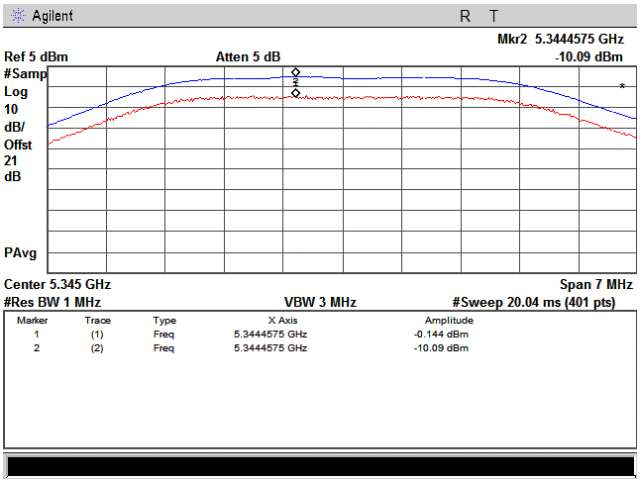
Plot 7.2.33 Peak excursion measurement

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK; 1.5 MBps



Plot 7.2.34 Peak excursion measurement

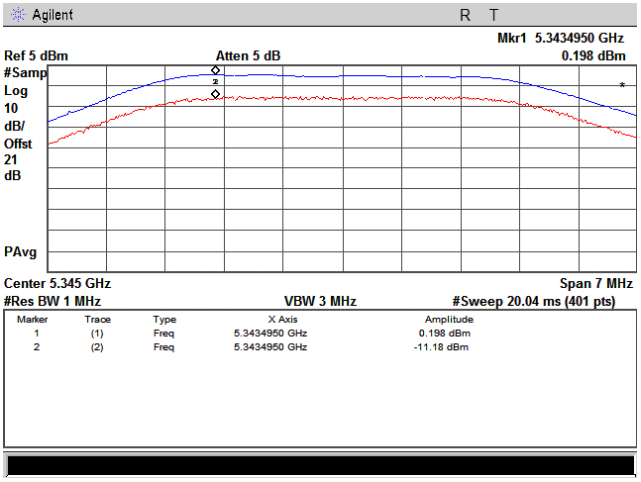
Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK; 4.5 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with internal antenna			

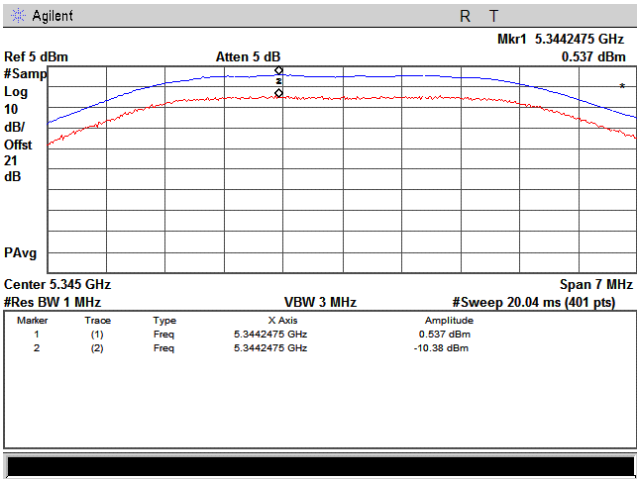
Plot 7.2.35 Peak excursion measurement

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM; 6 MBps



Plot 7.2.36 Peak excursion measurement

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 13.5 MBps



Test specification:	**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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Table 7.2.3 Peak excursion test results

ASSIGNED FREQUENCY RANGE: 5250-5350 MHz
DETECTOR USED: 1-st trace : Peak, Max Hold
2-nd trace : Sample, 100 Power Averaging
TRANSMITTER OUTPUT POWER SETTINGS: "3 dBm" at 5 MHz channel bandwidth
"6 dBm" at 10 MHz channel bandwidth
"9 dBm" at 20 MHz channel bandwidth
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, CBW 20 MHz							
5262.5	6	-0.385	-10.650	10.265	13	-2.735	Pass
5262.5	18	0.037	-8.746	8.783	13	-4.217	Pass
5262.5	24	1.311	-9.196	10.507	13	-2.493	Pass
5262.5	54	1.585	-9.391	10.976	13	-2.024	Pass
Low channel, CBW 10 MHz							
5257.5	3	-0.74	-10.660	9.92	13	-3.08	Pass
5257.5	9	2.075	-7.876	9.951	13	-3.049	Pass
5257.5	12	3.149	-8.313	11.462	13	-1.538	Pass
5257.5	27	2.3	-8.439	10.739	13	-2.261	Pass
Low channel, CBW 5 MHz							
5255	1.5	-1.32	-10.850	9.53	13	-3.47	Pass
5255	4.5	0.985	-9.410	10.395	13	-2.605	Pass
5255	6	1.722	-9.541	11.263	13	-1.737	Pass
5255	13.5	1.561	-9.396	10.957	13	-2.043	Pass
Mid channel, CBW 20 MHz							
5300	6	-1.125	-11.380	10.255	13	-2.745	Pass
5300	18	-0.284	-9.438	9.154	13	-3.846	Pass
5300	24	-0.195	-10.060	9.865	13	-3.135	Pass
5300	54	0.966	-9.841	10.807	13	-2.193	Pass
Mid channel, CBW 10 MHz							
5300	3	-1.343	-11.580	10.237	13	-2.763	Pass
5300	9	0.899	-9.577	10.476	13	-2.524	Pass
5300	12	2.382	-8.538	10.92	13	-2.08	Pass
5300	27	1.76	-8.99	10.75	13	-2.25	Pass
Mid channel, CBW 5 MHz							
5300	1.5	-1.946	-10.8	8.854	13	-4.146	Pass
5300	4.5	-0.336	-11.160	10.824	13	-2.176	Pass
5300	6	0.911	-10.390	11.301	13	-1.699	Pass
5300	13.5	0.922	-9.425	10.347	13	-2.653	Pass

*****- Margin = Peak excursion – specification limit.

Test specification:	**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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Table 7.2.3 Peak excursion test results (continued)

Frequency, MHz	Bit Rate, MBps	1-st trace, dBm	2-nd trace, dBm	Peak excursion, dB	Limit, dB	Margin, dB	Verdict
High channel, CBW 20 MHz							
5332.5	6	-1.429	-12.070	10.641	13	-2.359	Pass
5332.5	18	-0.444	-10.050	9.606	13	-3.394	Pass
5332.5	24	0.66	-8.982	9.642	13	-3.358	Pass
5332.5	54	1.603	-9.001	10.604	13	-2.396	Pass
High channel, CBW 10 MHz							
5340	3	-0.761	-11.870	11.109	13	-1.891	Pass
5340	9	0.93	-8.989	9.919	13	-3.081	Pass
5340	12	2.596	-9.356	11.952	13	-1.048	Pass
5340	27	1.611	-9.381	10.992	13	-2.008	Pass
High channel, CBW 5 MHz							
5345	1.5	-2.566	-11.730	9.164	13	-3.836	Pass
5345	4.5	-0.144	-10.090	9.946	13	-3.054	Pass
5345	6	0.198	-11.180	11.378	13	-1.622	Pass
5345	13.5	0.537	-10.38	10.917	13	-2.083	Pass

*****- Margin = Peak excursion – specification limit.

Reference numbers of test equipment used

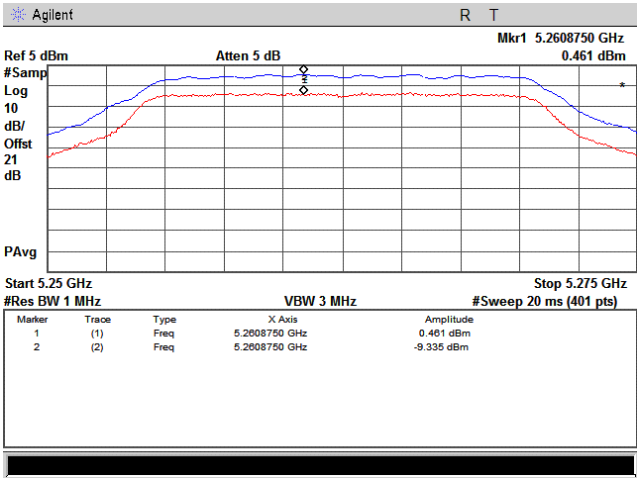
HL 2909	HL 2951	HL 3179					

Full description is given in Appendix A.

Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with external antenna			

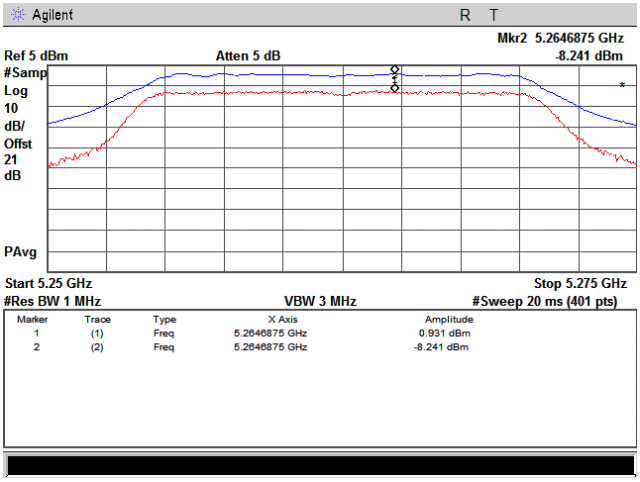
Plot 7.2.37 Peak excursion measurements

Frequency: 5262.5 MHz
Channel BW: 20 MHz
Modulation parameters: BPSK; 6 MBps



Plot.7.2.38 Peak excursion measurement

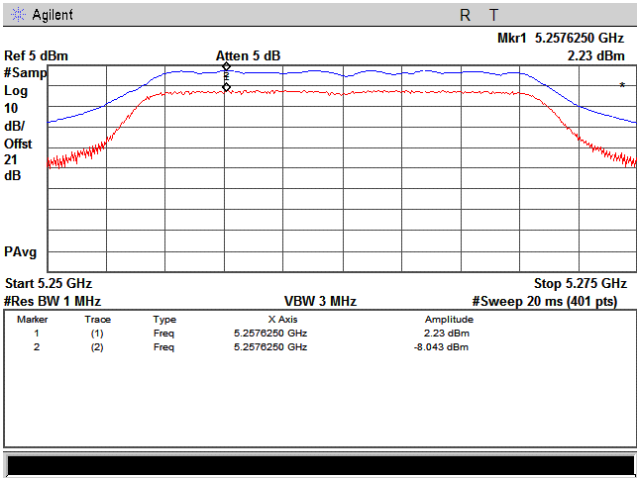
Frequency: 5262.5 MHz
Channel BW: 20 MHz
Modulation parameters: QPSK; 18 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with external antenna			

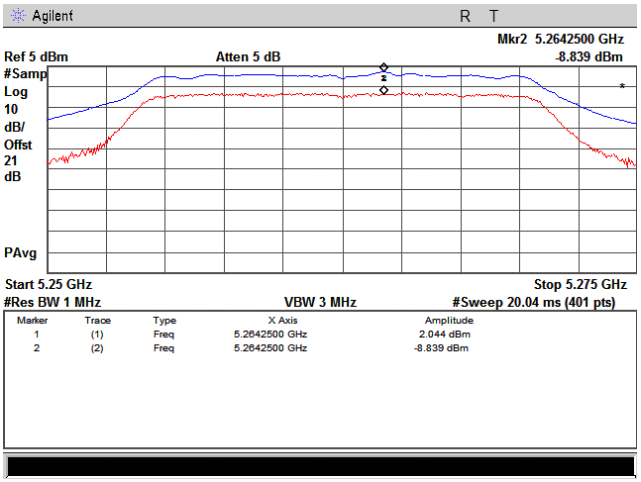
Plot.7.2.39 Peak excursion measurement

Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM; 24 MBps



Plot.7.2.40 Peak excursion measurement

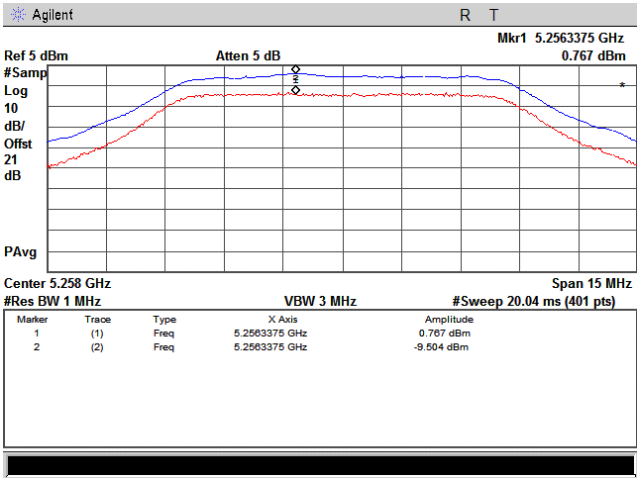
Frequency:	5262.5 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM; 54 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

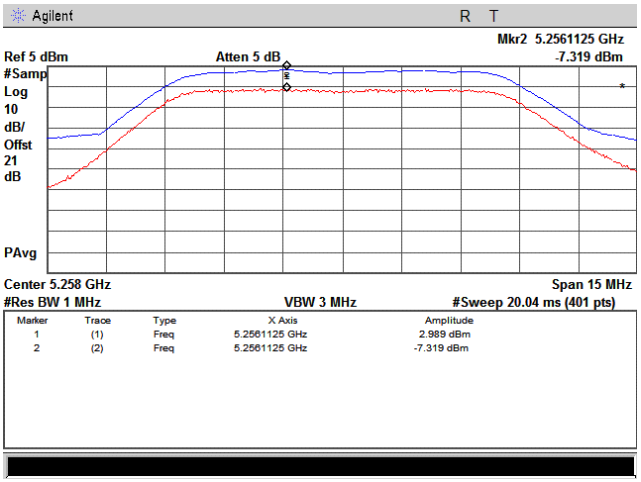
Plot 7.2.41 Peak excursion measurement

Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK; 3 MBps



Plot 7.2.42 Peak excursion measurement

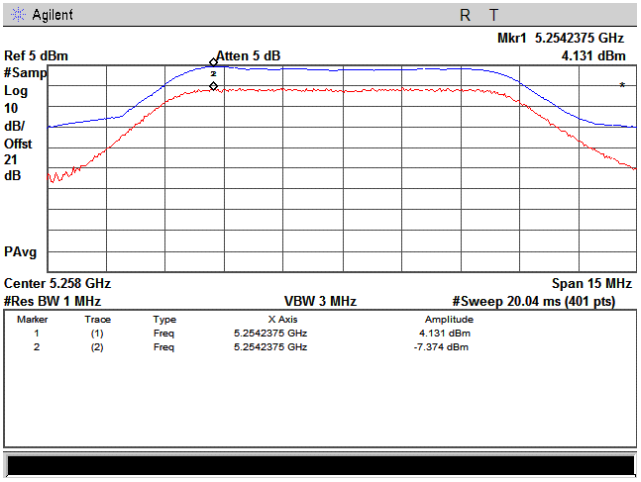
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 9 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with external antenna			

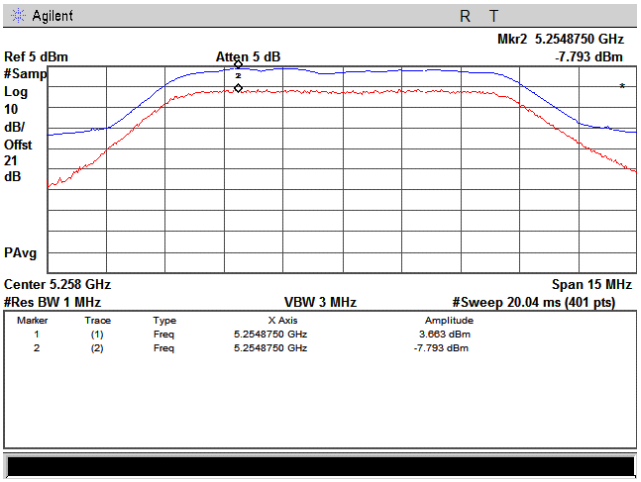
Plot 7.2.43 Peak excursion measurement

Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM; 12 MBps



Plot 7.2.44 Peak excursion measurement

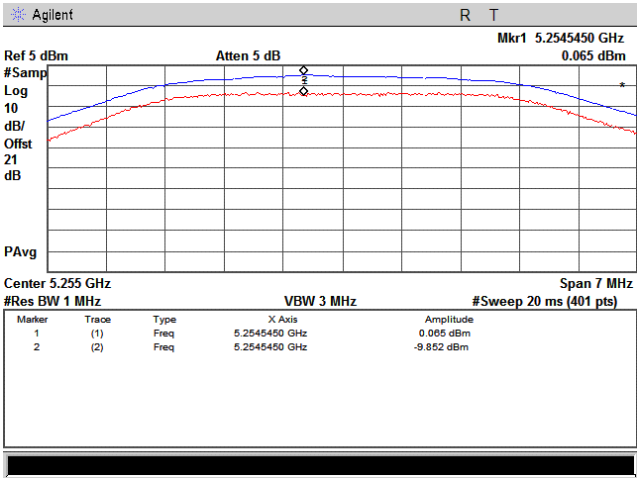
Frequency:	5257.5 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM; 27 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

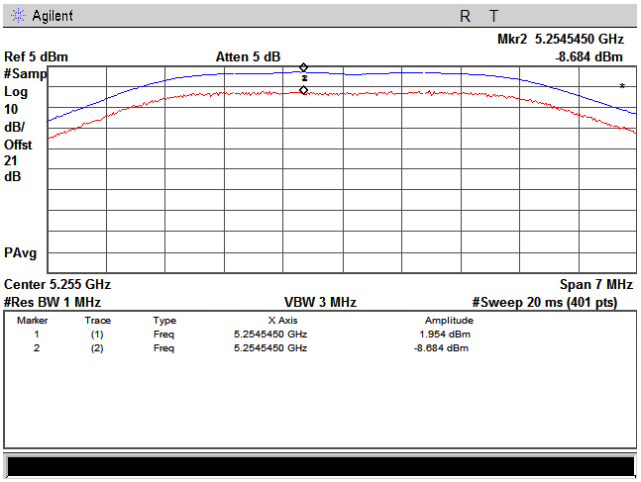
Plot 7.2.45 Peak excursion measurement

Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK; 1.5 MBps



Plot 7.2.46 Peak excursion measurement

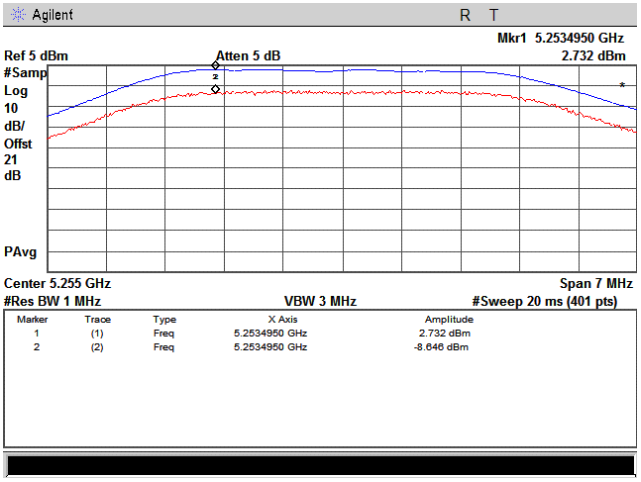
Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK; 4.5 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

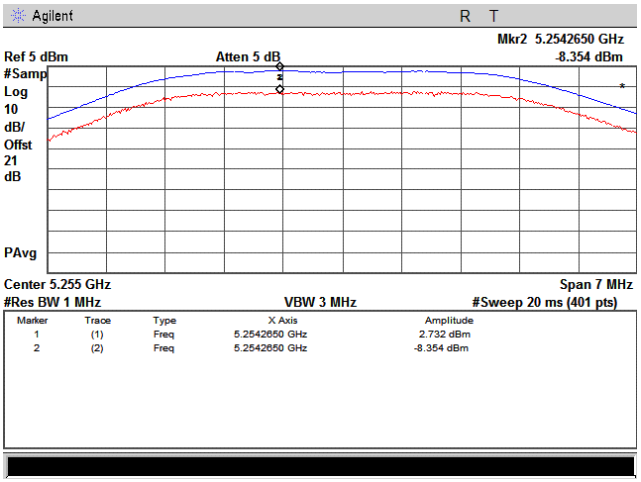
Plot 7.2.47 Peak excursion measurement

Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM; 6 MBps



Plot 7.2.48 Peak excursion measurement

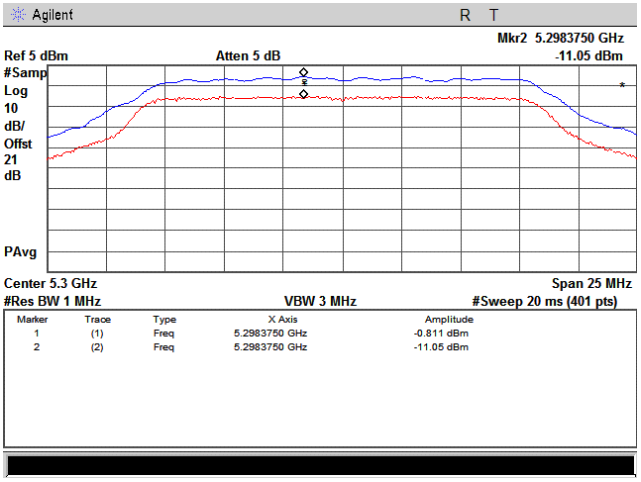
Frequency:	5255 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 13.5 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with external antenna			

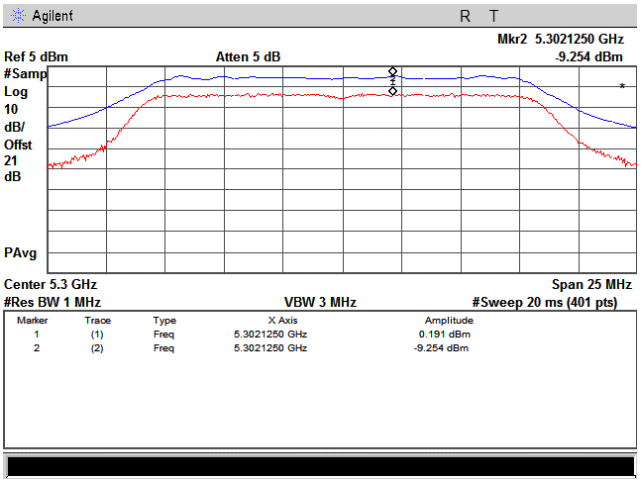
Plot 7.2.49 Peak excursion measurement

Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK; 6 MBps



Plot 7.2.50 Peak excursion measurement

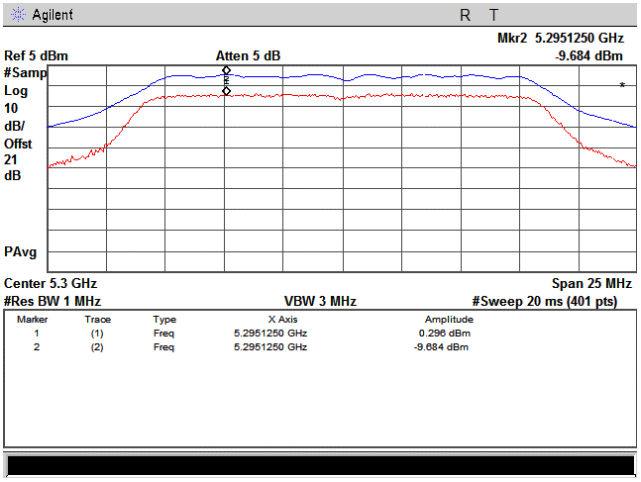
Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK; 18 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

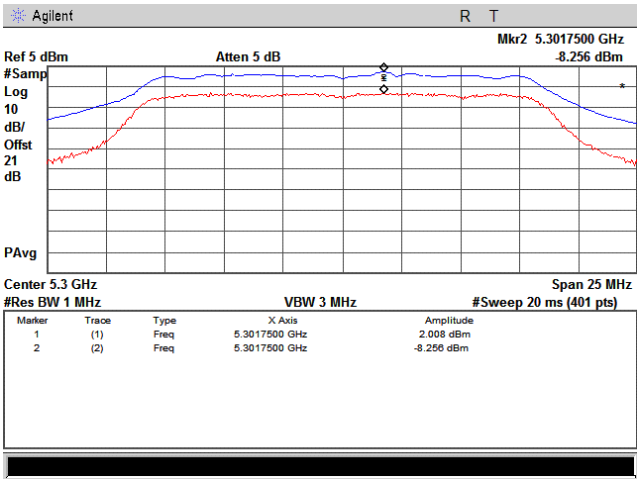
Plot 7.2.51 Peak excursion measurement

Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM; 24 MBps



Plot 7.2.52 Peak excursion measurement

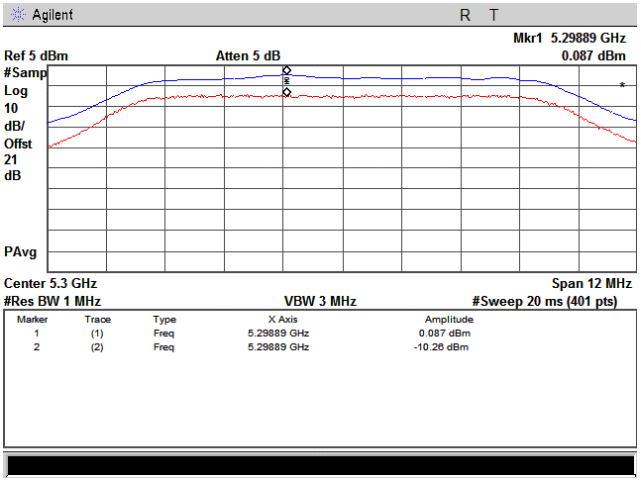
Frequency:	5300 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM; 54 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with external antenna			

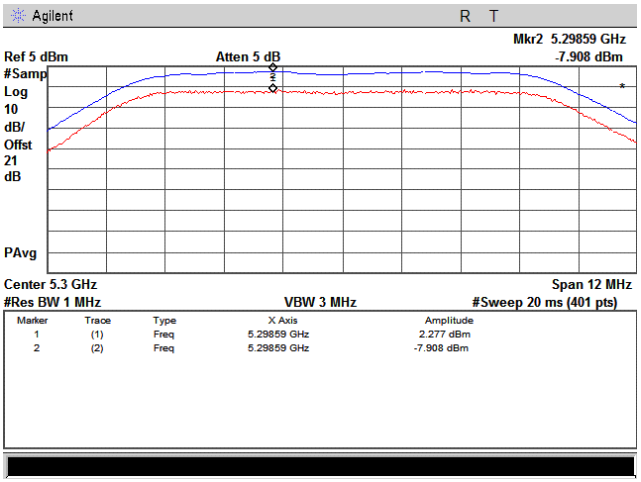
Plot 7.2.53 Peak excursion measurement

Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK; 3 MBps



Plot 7.2.54 Peak excursion measurement

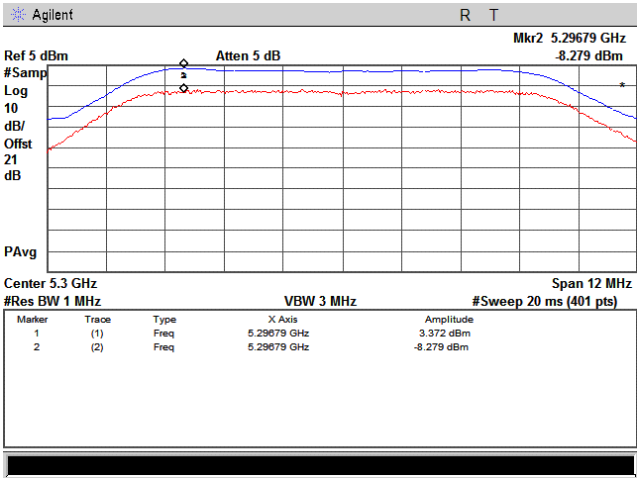
Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 9 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with external antenna			

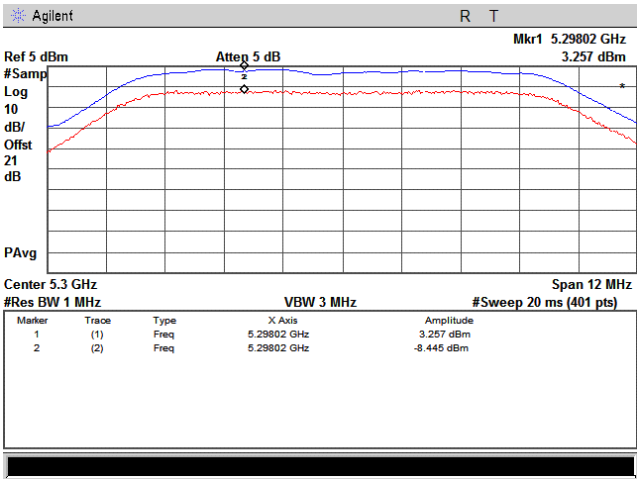
Plot 7.2.55 Peak excursion measurement

Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM; 12 MBps



Plot 7.2.56 Peak excursion measurement

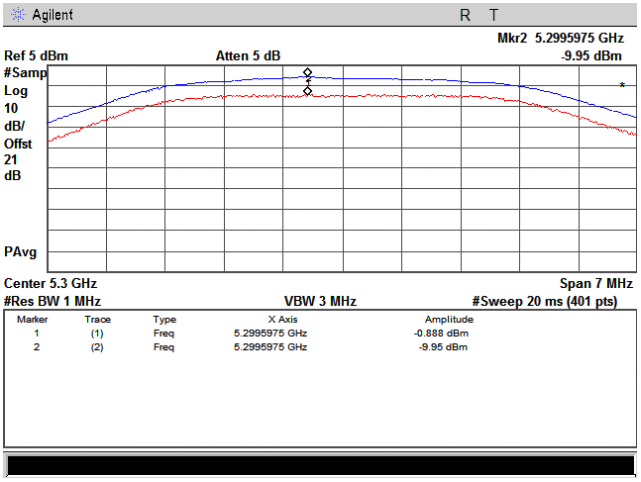
Frequency:	5300 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM; 27 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with external antenna			

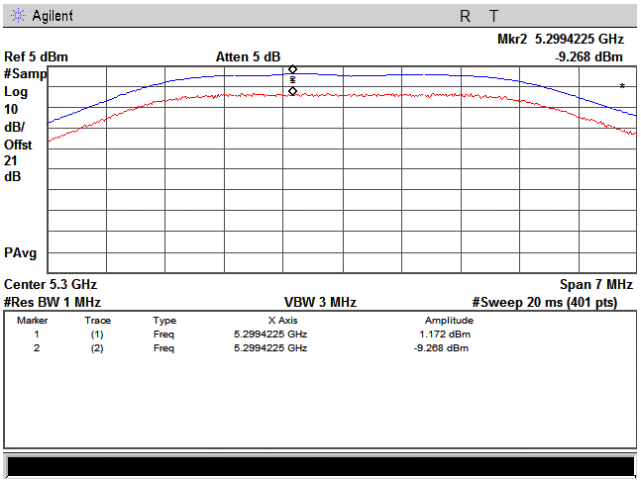
Plot 7.2.57 Peak excursion measurement

Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK; 1.5 MBps



Plot 7.2.58 Peak excursion measurement

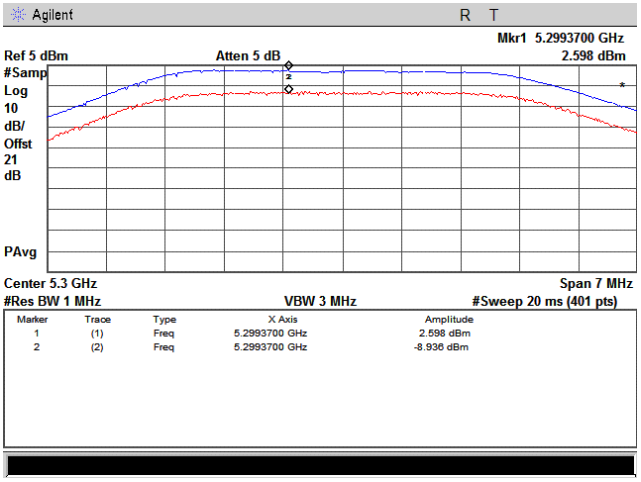
Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK; 4.5 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

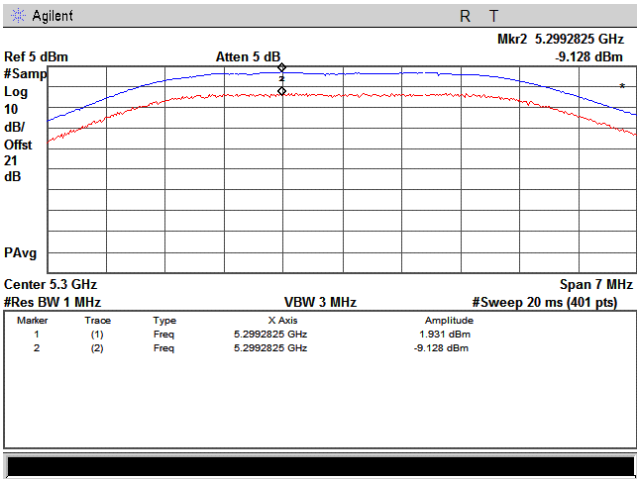
Plot 7.2.59 Peak excursion measurement

Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM; 6 MBps



Plot 7.2.60 Peak excursion measurement

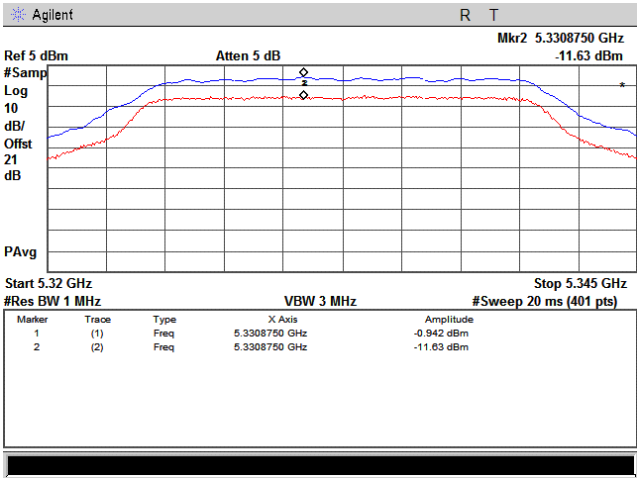
Frequency:	5300 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 13.5 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with external antenna			

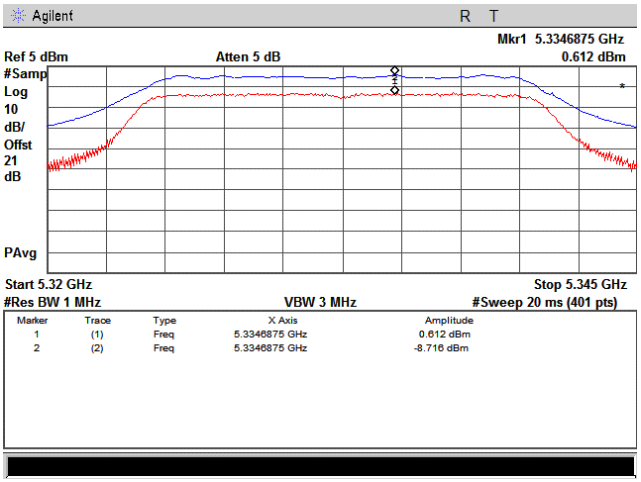
Plot 7.2.61 Peak excursion measurement

Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK; 6 MBps



Plot 7.2.62 Peak excursion measurement

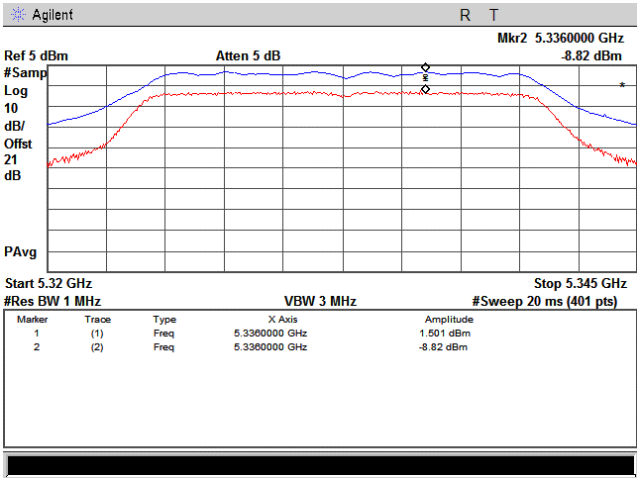
Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	QPSK; 18 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with external antenna			

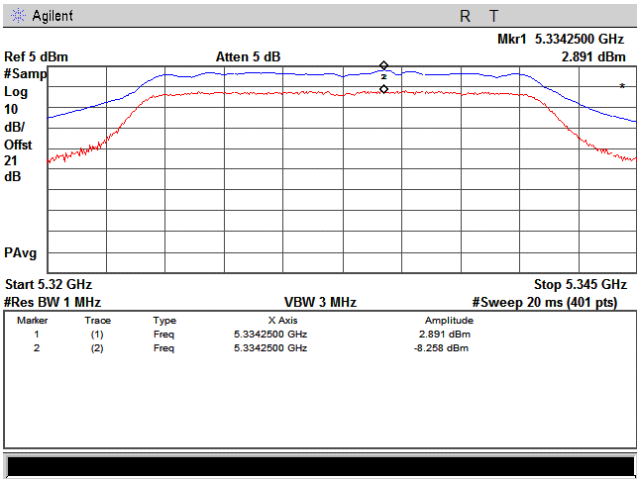
Plot 7.2.63 Peak excursion measurement

Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	16QAM; 24 MBps



Plot 7.2.64 Peak excursion measurement

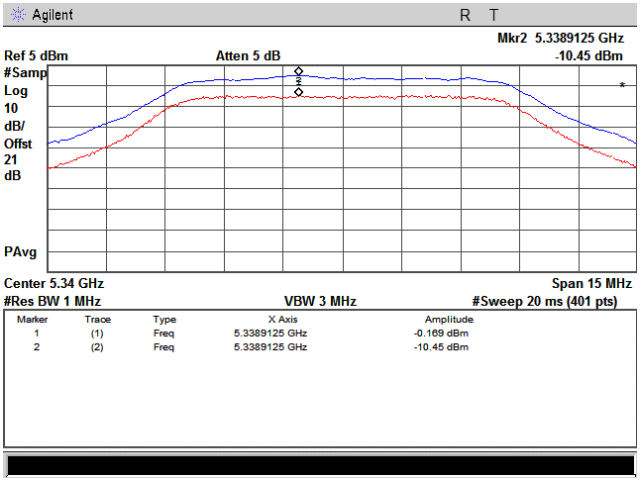
Frequency:	5332.5 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM; 54 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with external antenna			

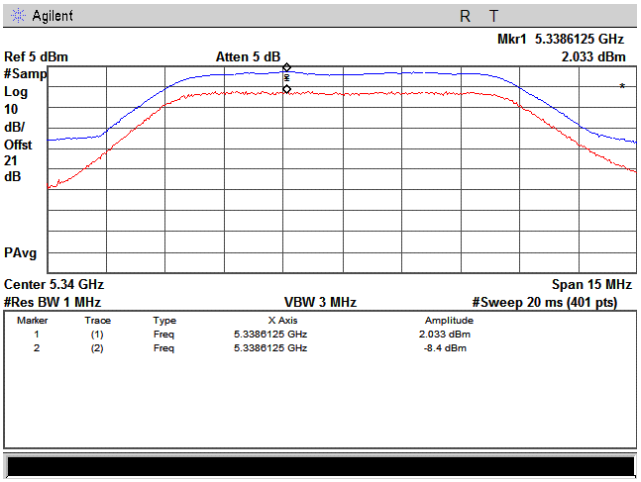
Plot 7.2.65 Peak excursion measurement

Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK; 3 MBps



Plot 7.2.66 Peak excursion measurement

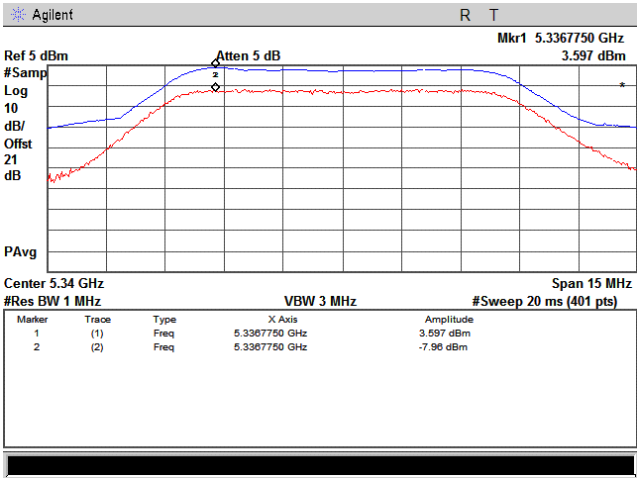
Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 9 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	Air Pressure: 1012 hPa	Relative Humidity: 52 %	Power Supply: 120 VAC
Remarks: EUT with external antenna			

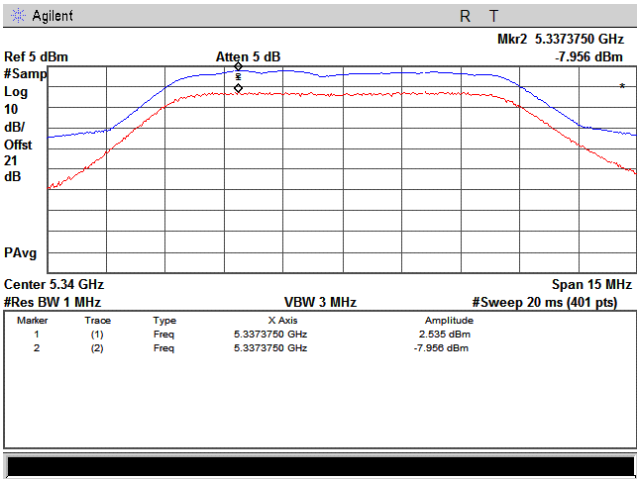
Plot 7.2.67 Peak excursion measurement

Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	16QAM; 12 MBps



Plot 7.2.68 Peak excursion measurement

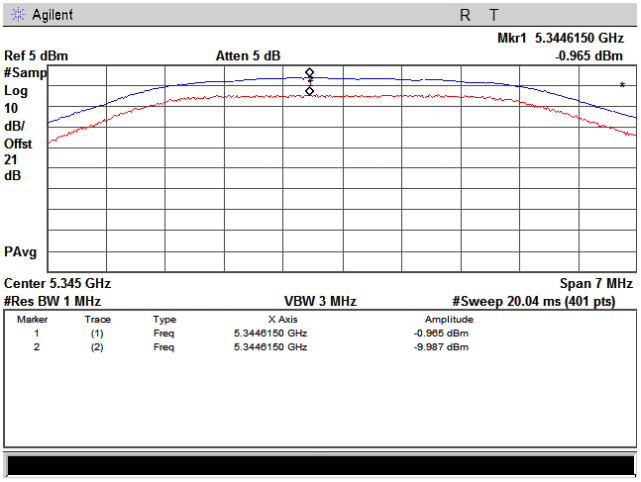
Frequency:	5340 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM; 27 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

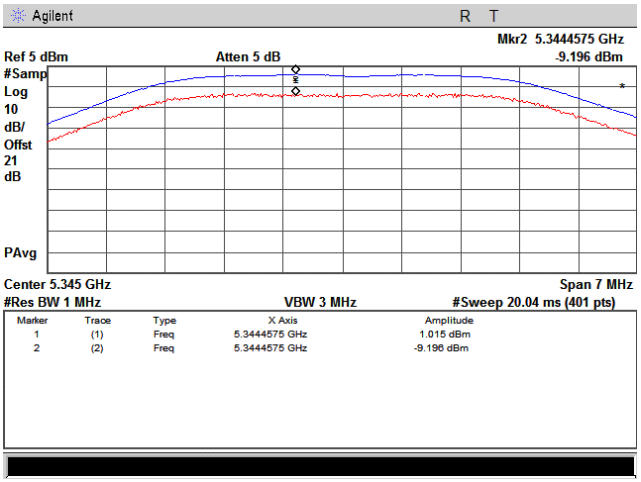
Plot 7.2.69 Peak excursion measurement

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK; 1.5 MBps



Plot 7.2.70 Peak excursion measurement

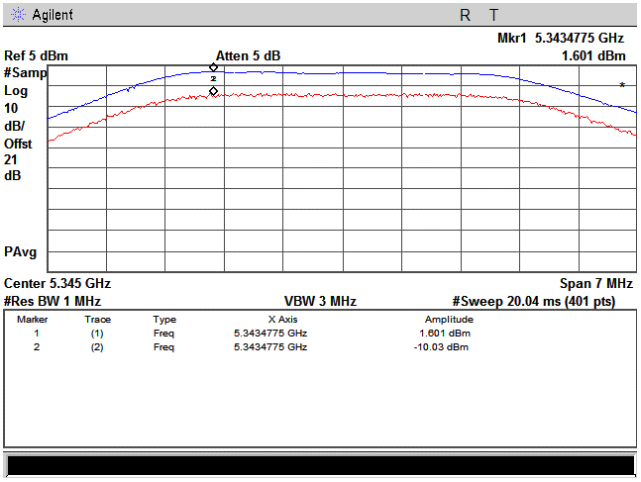
Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	QPSK; 4.5 MBps



Test specification:	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:	6/15/2008		
Temperature: 23 ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 52 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

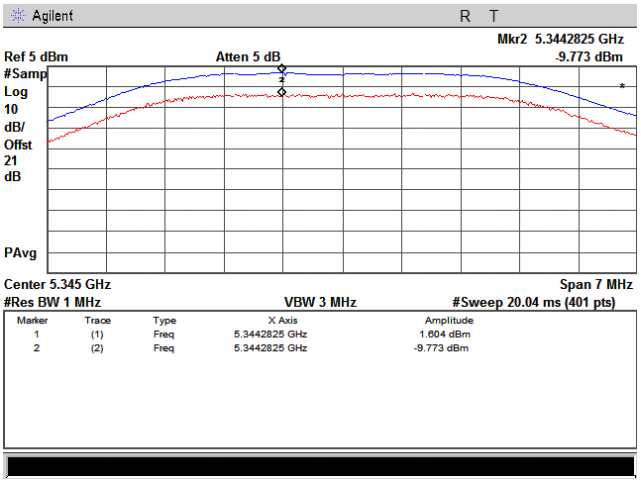
Plot 7.2.71 Peak excursion measurement

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	16QAM; 6 MBps



Plot 7.2.72 Peak excursion measurement

Frequency:	5345 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 13.5 MBps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks:			

7.3 Band edge spurious emissions

This test was performed to measure radiated 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 emission test limits

Assigned frequency range, MHz	EIRP of spurious, dBm/MHz	Resolution bandwidth, kHz	Equivalent field strength limit @ 3m, dB(μV/m)*
5250 - 5350	-27	1000	68.23

- - Equivalent field strength limit was calculated from maximum allowed ERP of spurious as follows: E=20×log(sqrt(30×P×1.64)/r) – 2.15, where P is EIRP in Watts, 1.64 is numeric gain of ideal dipole and r is antenna to EUT distance in meters

Table 7.3.2 Radiated spurious emissions limits within restricted bands above 1 GHz

Frequency, MHz	Field strength at 3 m, dB(μV/m)	
	Peak	Average
Above 1000	74.0	54.0

7.3.1 Test procedure for spurious emission field strength measurements

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

7.3.1.2 The specified frequency range was investigated with antenna connected to spectrum analyzer. To find maximum radiation the turntable was rotated 360^0 and the measuring antenna height was swept from 1 to 4 m in both, vertical and horizontal, polarizations.

7.3.1.3 The band-edge emission measurements were performed by marker-delta method.

7.3.1.4 The worst test results (the lowest margins) were recorded in Table 7.3.3, Table 7.3.6 and shown in the associated plots.

7.3.2 Test procedure for substitution EIRP measurements of spurious

7.3.2.1 The test equipment was set up as shown in Figure 7.3.2 and energized.

7.3.2.2 RF signal generator was set to the frequency of investigated spurious emission and the RF output level was preliminary adjusted to produce the same field strength as it was measured from the EUT.

7.3.2.3 The test antenna height was swept from 1 to 4 m to find maximum emission from substitution antenna and RF signal generator output was fine adjusted to produce the same field strength as it was measured from the EUT.

7.3.2.4 The above procedure was performed in both, horizontal and vertical, polarizations of the test and substitution antennas.

7.3.2.5 The EIRP of spurious emissions was calculated as a sum of signal generator output power in dBm and antenna gain in dBi reduced by cable loss in dB.

7.3.2.6 The above procedure was repeated at the rest of investigated frequencies.

7.3.2.7 The worst test results (the lowest margins) were recorded in Table 7.3.4, Table 7.3.7 and shown in the associated plots.

Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	Verdict:	PASS
Date:	7/16/2008		
Temperature: 24ºC	Air Pressure: 1012 hPa	Relative Humidity: 48 %	Power Supply: 120 VAC
Remarks:			

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

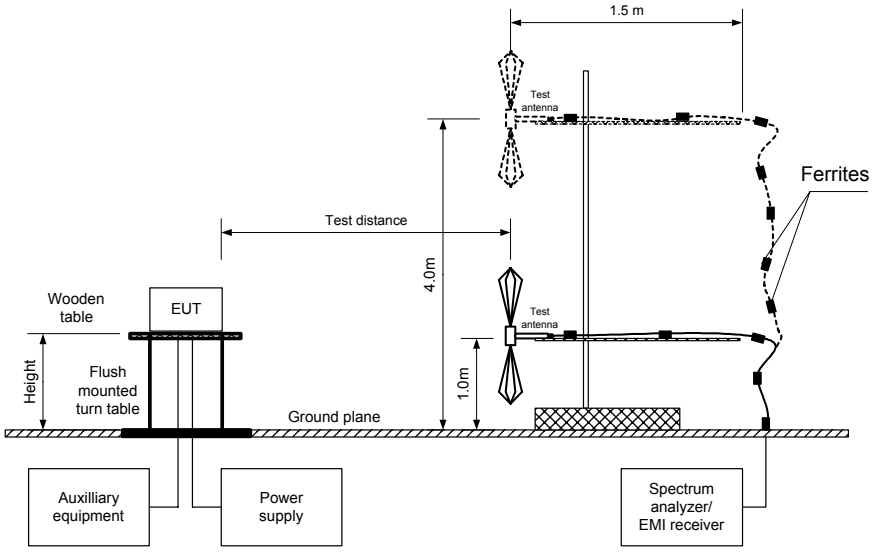
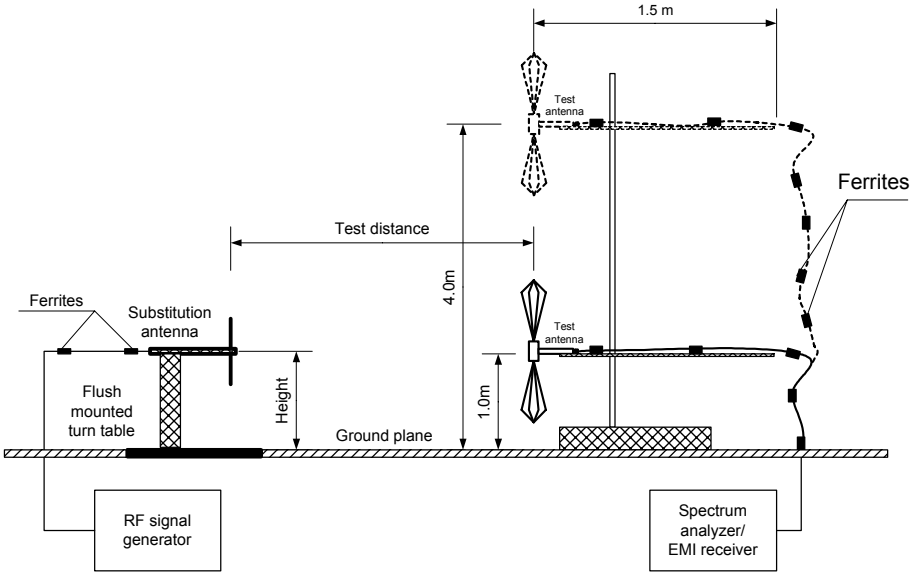


Figure 7.3.2 Setup for substitution ERP measurements of spurious



Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Table 7.3.3 Bandedge emission field strength test results

ASSIGNED FREQUENCY RANGE: 5250 – 5350 MHz
TEST DISTANCE: 3 m
TEST SITE: OATS
EUT HEIGHT: 0.8 m
DETECTOR USED: Peak
TRANSMITTER OUTPUT POWER SETTINGS: "2 dBm" at 5 MHz channel bandwidth
"5 dBm" at 10 MHz channel bandwidth
"8 dBm" at 20 MHz channel bandwidth
RBW: 1 MHz
VIDEO BANDWIDTH: > Resolution bandwidth
TEST ANTENNA TYPE: Double ridged guide (above 1000 MHz)
MODULATION: BPSK/64QAM

Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	Output power settings, dBm	Field strength dBuV/m	Limit, dBuV/m	Margin*, dB	Antenna polarity	Antenna height, m	TT**, degree
Edge	Channel										
5250	5255	BPSK	1.5	5	2	48.94	68.23	-19.29	Vertical	1.0	0
5250	5255	64QAM	13.5	5	2	48.64	68.23	-19.59	Vertical	1.0	0
5250	5257.5	BPSK	3	10	5	66.20	68.23	-2.03	Vertical	1.0	0
5250	5257.5	64QAM	27	10	5	59.06	68.23	-9.17	Vertical	1.0	0
5250	5262.5	BPSK	6	20	8	68.33	68.23	0.10	Vertical	1.0	0
5250	5262.5	64QAM	54	20	8	61.61	68.23	-12.96	Vertical	1.0	0

*****- Margin = Field strength of spurious – calculated field strength limit.
******- EUT front panel refers to 0 degrees position of turntable.

Table 7.3.4 Substitution EIRP of bandedge emission test results

ASSIGNED FREQUENCY RANGE: 5250 – 5350 MHz
TEST SITE: OATS
TEST DISTANCE: 3 m
SUBSTITUTION ANTENNA HEIGHT: 0.8 m
DETECTOR USED: Peak
RBW: 1 MHz
VIDEO BANDWIDTH: > Resolution bandwidth
SUBSTITUTION ANTENNA TYPE: Double ridged guide

Frequency, MHz		Field strength, dB(µV/m)	Antenna polariz.	Ant gain, dBi	Cable loss, dB	RF generator output, dBm	EIRP, dBm/MHz	Limit, dBm/MHz	Margin, dB*	Verdict
Edge	Channel									
5250.00	5255.0	48.94	Vertical	10.21	4.28	-52.29	-46.36	-27.0	-19.36	Pass
5250.00	5255.0	48.64	Vertical	10.21	4.28	-52.59	-46.66	-27.0	-19.66	
5250.00	5257.5	66.20	Vertical	10.21	4.28	-35.06	-29.13	-27.0	-2.13	
5250.00	5257.5	59.06	Vertical	10.21	4.28	-42.19	-36.29	-27.0	-9.29	
5250.00	5262.5	68.33	Vertical	10.26	4.28	-33.9	-27.92	-27.0	-0.92	
5250.00	5262.5	61.67	Vertical	10.26	4.28	-46.96	-40.98	-27.0	-13.98	

*****- Margin = Spurious emission – specification limit.

Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Table 7.3.5 Field strength of bandedge emissions within restricted bands

ASSIGNED FREQUENCY RANGE: 5250 -5350 MHz
TEST DISTANCE: 3 m
MODULATION: BPSK/64QAM
TRANSMITTER OUTPUT POWER SETTINGS: "2 dBm" at 5 MHz channel bandwidth
"5 dBm" at 10 MHz channel bandwidth
"8 dBm" at 20 MHz channel bandwidth
DETECTOR USED: Peak
RESOLUTION BANDWIDTH: 1000 kHz
TEST ANTENNA TYPE: Double ridged guide

Frequency, MHz	Bit rate Mbps	Antenna		Azimuth degrees	Peak field strength (VBW=3 MHz)			Average field strength (VBW=300 Hz)			Verdict
		Polarization	Height m		Measured, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*	Measured, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*	
20 MHz EBW											
5350	6	Vertical	1.0	0	59.84	74.0	-14.16	41.16	54.00	-12.84	Pass
5350	54	Vertical	1.0	0	71.24	74.0	-2.76	51.78	54.00	-2.22	
10 MHz EBW											
5350	3	Vertical	1.0	0	63.33	74.0	-10.67	49.83	54.00	-4.17	Pass
5350	27	Vertical	1.0	0	73.50	74.0	-0.50	53.83	54.00	-0.17	
5 MHz EBW											
5350	1.5	Vertical	1.0	0	66.81	74.0	-5.19	46.58	54.00	-7.42	Pass
5350	13.5	Vertical	1.0	0	72.03	74.0	-1.97	52.51	54.00	-1.49	

*- Margin = Measured emission – specification limit.

Reference numbers of test equipment used

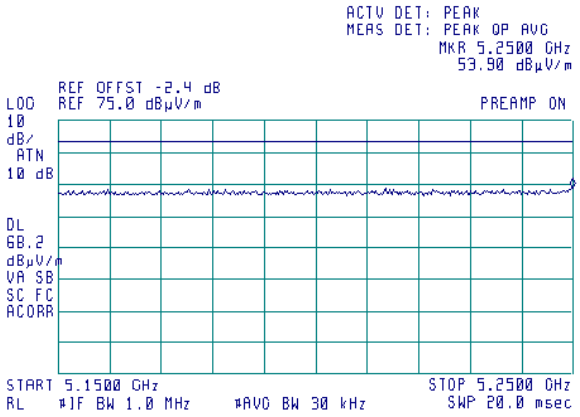
HL 0521	HL 0661	HL 1947	HL 1984	HL 2432	HL 3120	HL 3121	

Full description is given in Appendix A.

Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

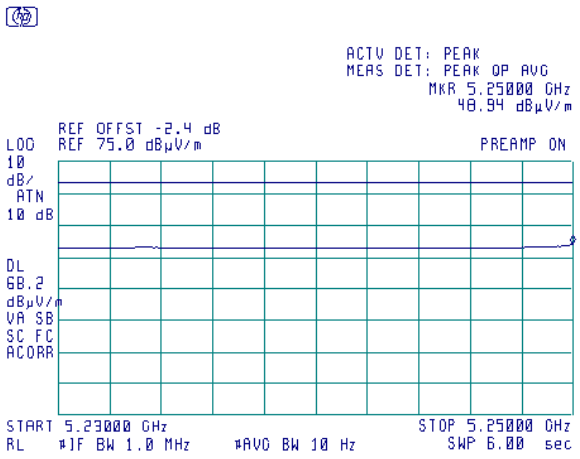
Plot 7.3.1 Radiated emission measurements at low edge (5 MHz EBW)

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak
MODULATION: BPSK 1.5 Mbps



Plot 7.3.2 Radiated emission measurements at low edge (5 MHz EBW)

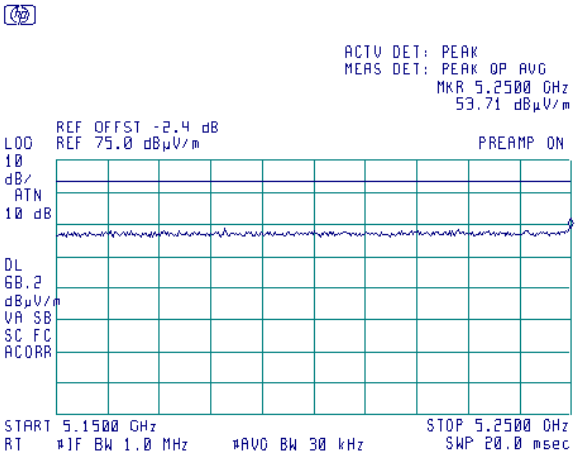
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average
MODULATION: BPSK 1.5 Mbps



Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

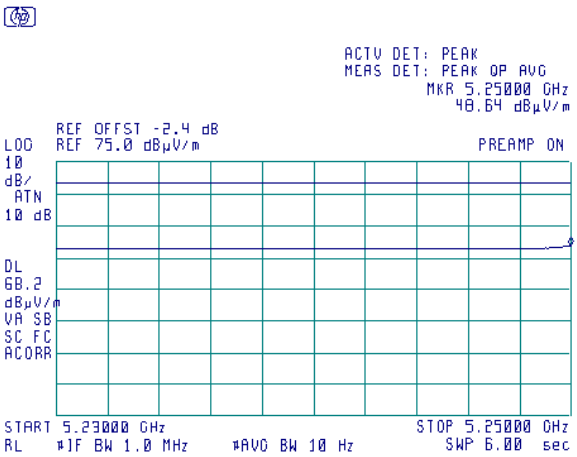
Plot 7.3.3 Radiated emission measurements at low edge (5 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	64QAM 13.5 Mbps



Plot 7.3.4 Radiated emission measurements at low edge (5 MHz EBW)

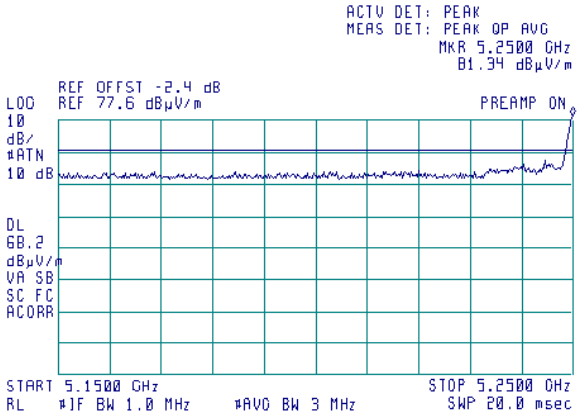
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	64QAM 13.5 Mbps



Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

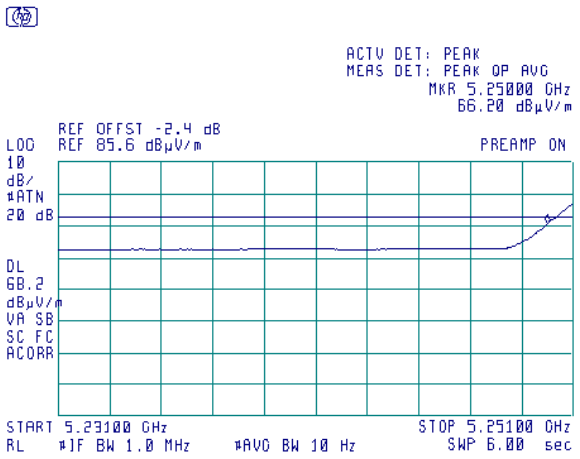
Plot 7.3.5 Radiated emission measurements at low edge (10 MHz EBW)

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



Plot 7.3.6 Radiated emission measurements at low edge (10 MHz EBW)

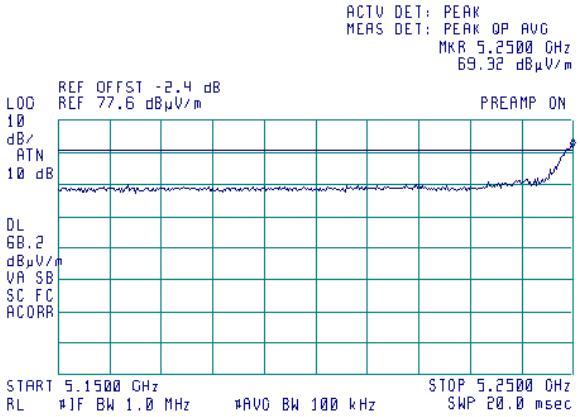
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	BPSK 3 Mbps



Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

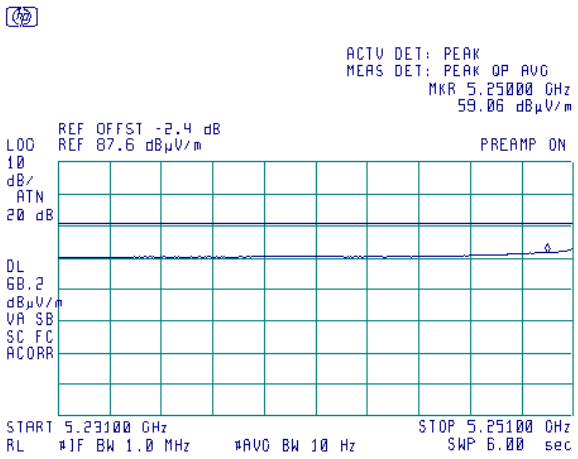
Plot 7.3.7 Radiated emission measurements at low edge (10 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	64QAM 27 Mbps



Plot 7.3.8 Radiated emission measurements at low edge (10 MHz EBW)

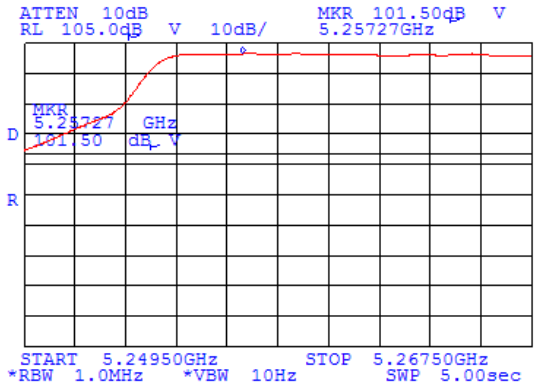
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	64QAM 27 Mbps

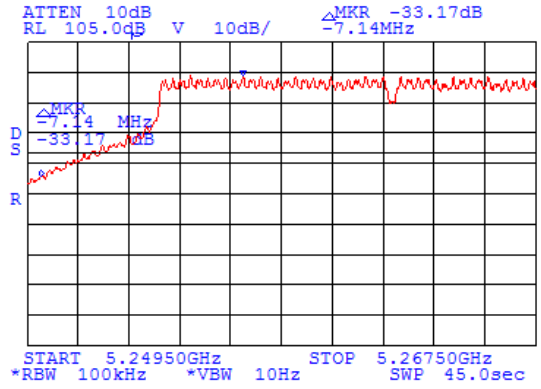


Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Plot 7.3.9 Radiated emission measurements at low edge at low edge (20 MHz EBW) by delta method

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	BPSK 6 Mbps



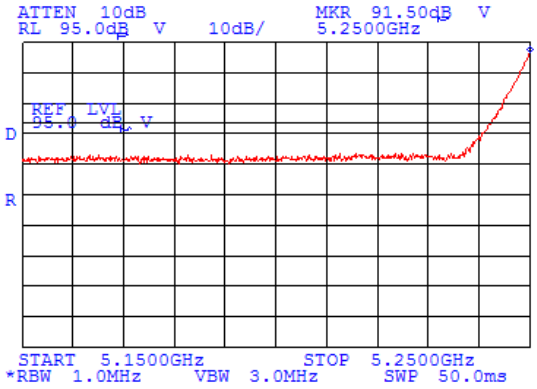


The field strength determined by delta method is equal to 63.33 dBµV/m

Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

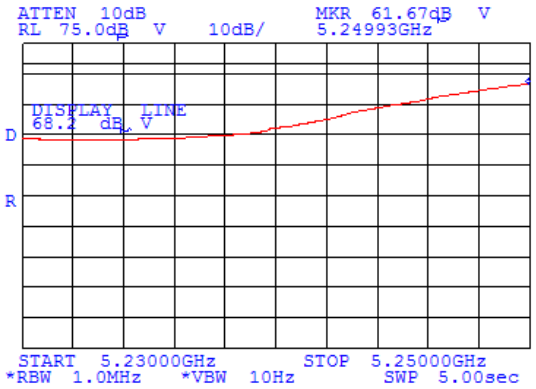
Plot 7.3.10 Radiated emission measurements at low edge (20 MHz EBW)

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak
MODULATION: 64QAM 54 Mbps



Plot 7.3.11 Radiated emission measurements at low edge (20 MHz EBW)

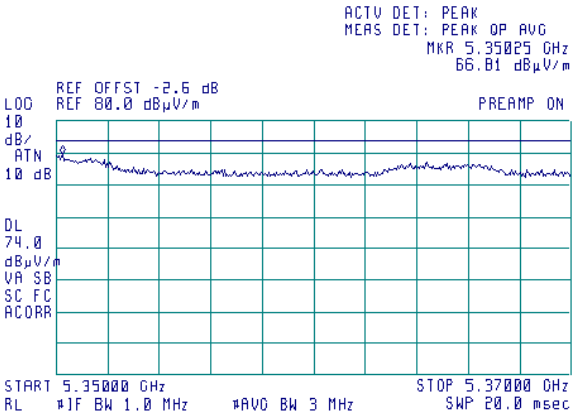
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average
MODULATION: 64QAM 54 Mbps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

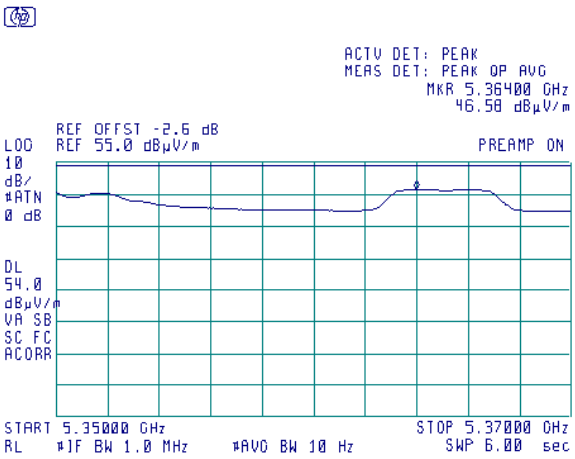
Plot 7.3.12 Radiated emission measurements at high edge (5 MHz EBW)

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak
MODULATION: BPSK 1.5 Mbps



Plot 7.3.13 Radiated emission measurements at high edge (5 MHz EBW)

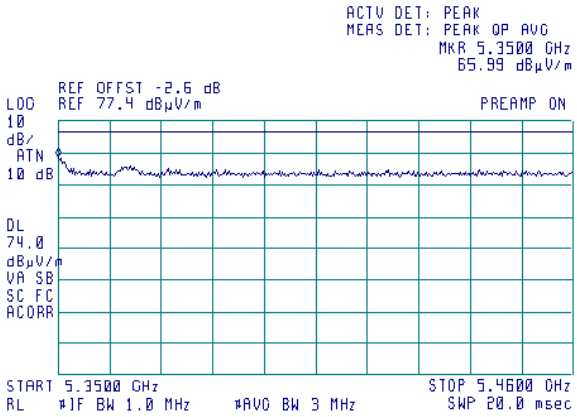
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average
MODULATION: BPSK 1.5 Mbps



Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

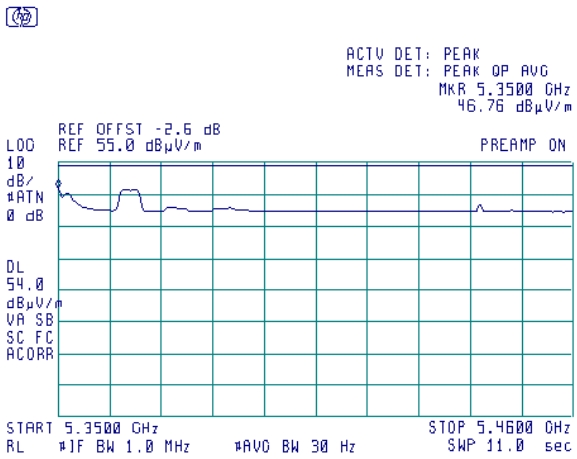
Plot 7.3.14 Radiated emission measurements at high edge (5 MHz EBW)

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak
MODULATION: BPSK 1.5 Mbps



Plot 7.3.15 Radiated emission measurements at high edge (5 MHz EBW)

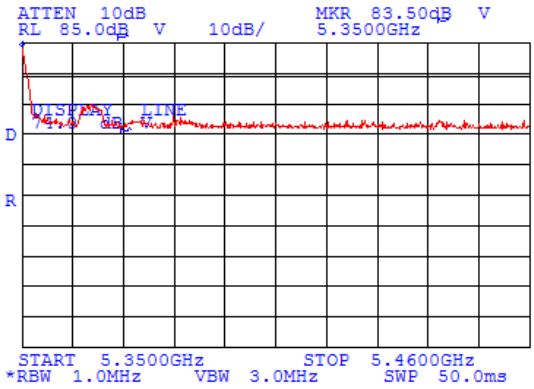
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average
MODULATION: BPSK 1.5 Mbps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

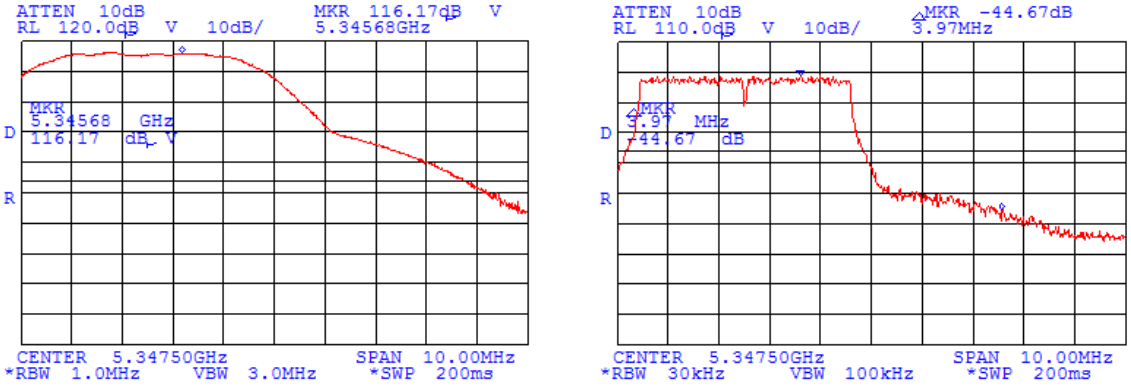
Plot 7.3.16 Radiated emission measurements at high edge (5 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	64QAM 13.5 Mbps



5366.0 MHz: 66.17 dBuV/m

Plot 7.3.17 Radiated emission measurements at high edge by delta method

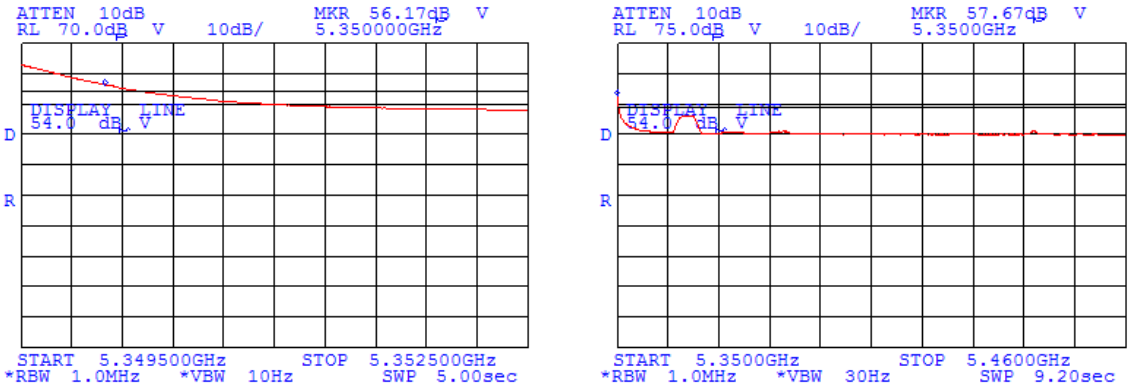


The field strength determined by delta method is equal to 72.03 dBµV/m

Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

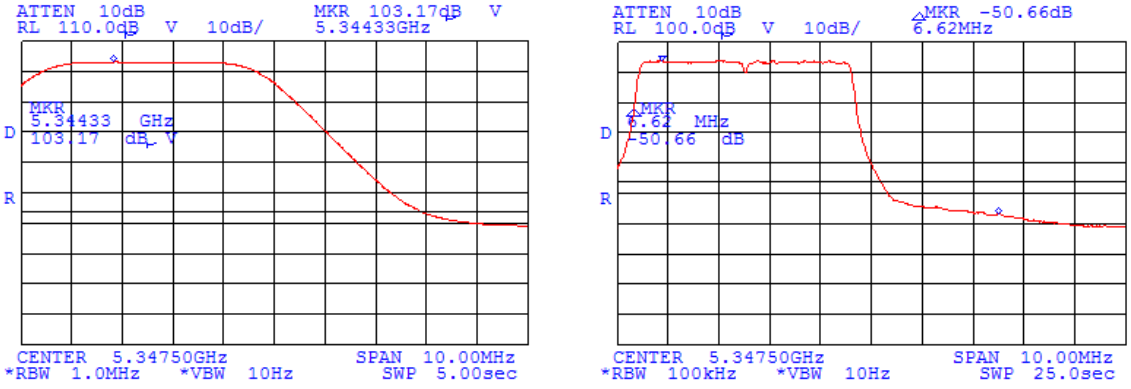
Plot 7.3.18 Radiated emission measurements at high edge (5 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	64QAM 13.5 Mbps



5366.0 MHz: 51.00 dBuV/m @ VBW 10Hz

Plot 7.3.19 Radiated emission measurements at high edge by delta method

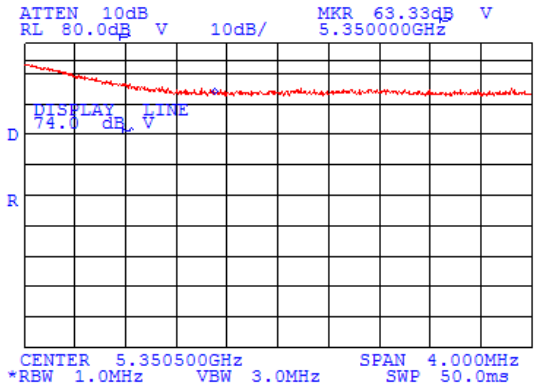


The field strength determined by delta method is equal to 52.51 dBµV/m

Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

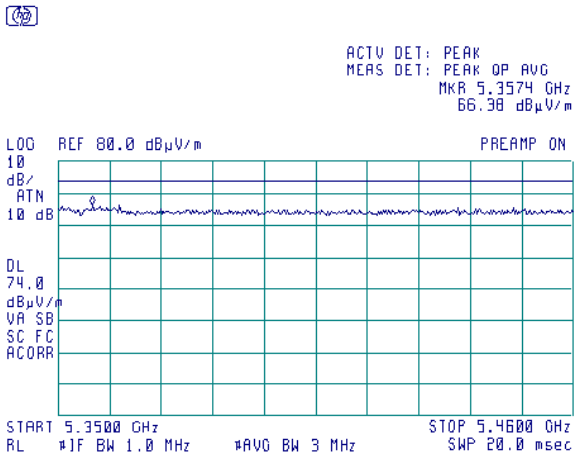
Plot 7.3.20 Radiated emission measurements at high edge (10 MHz EBW)

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



Plot 7.3.21 Radiated emission measurements at high edge (10 MHz EBW)

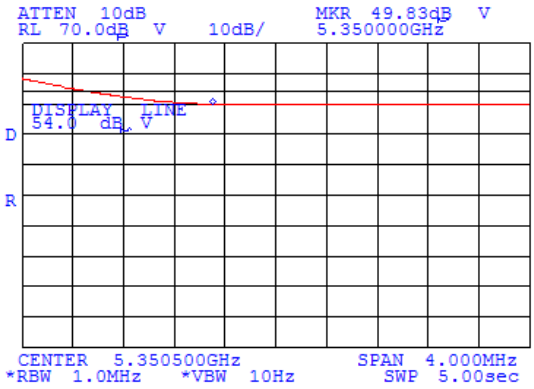
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak
MODULATION: BPSK 3 Mbps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

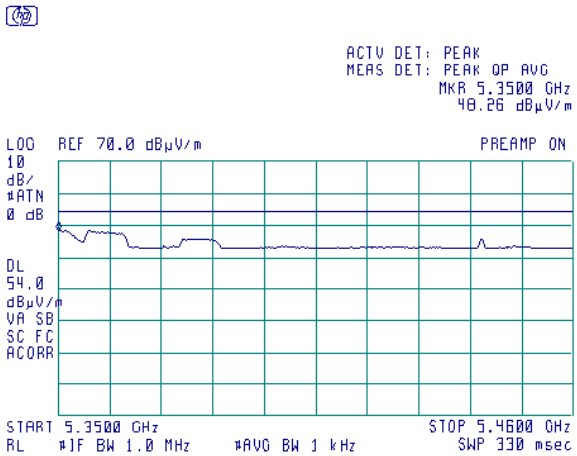
Plot 7.3.22 Radiated emission measurements at high edge (10 MHz EBW)

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



Plot 7.3.23 Radiated emission measurements at high edge (10 MHz EBW)

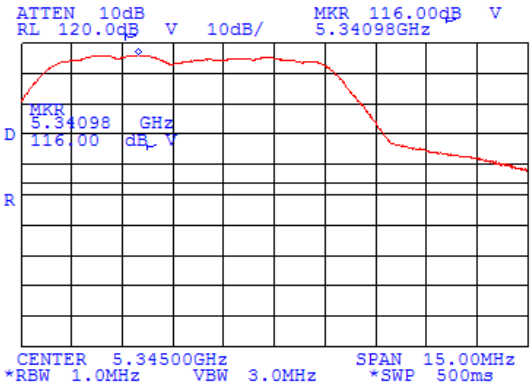
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average
MODULATION: BPSK 3 Mbps

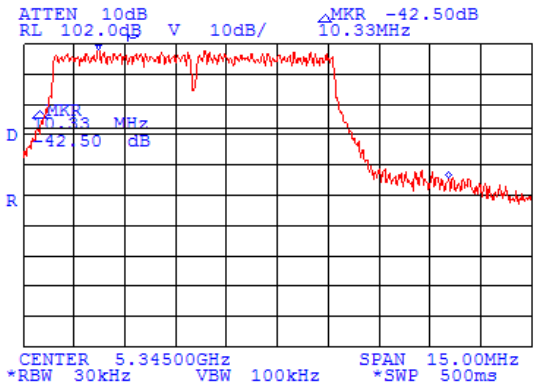


Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

Plot 7.3.24 Radiated emission measurements at high edge (10 MHz EBW) by delta method

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	64QAM 27 Mbps



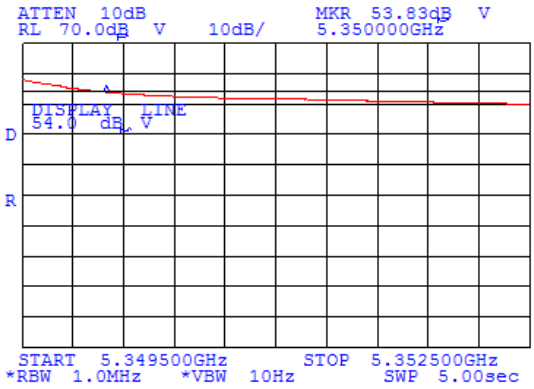


The field strength determined by delta method is equal to 73.5 dBµV/m

Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

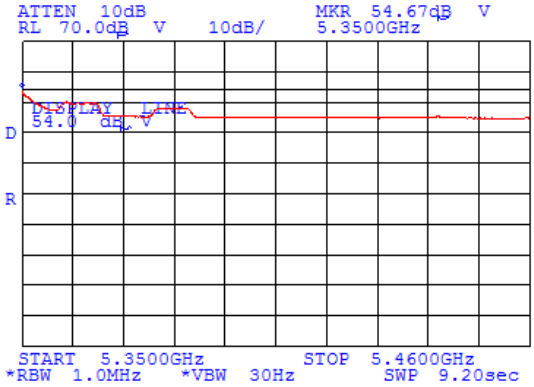
Plot 7.3.25 Radiated emission measurements at high edge (10 MHz EBW)

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average
MODULATION: 64QAM 27 Mbps



Plot 7.3.26 Radiated emission measurements at high edge (10 MHz EBW)

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average
MODULATION: 64QAM 27 Mbps

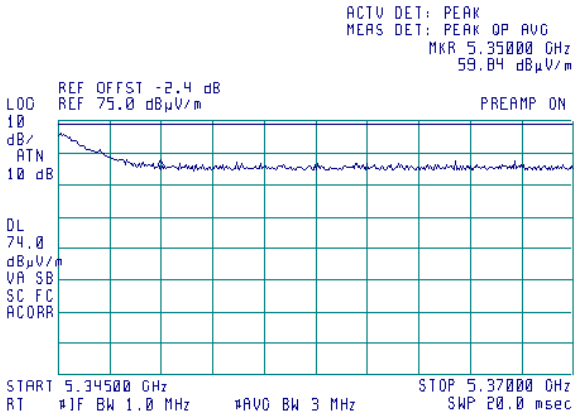


5359.5 MHz: 50.17 dBuV/m @ VBW 10Hz
5381.5 MHz: 47.83 dBuV/m @ VBW 10Hz

Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

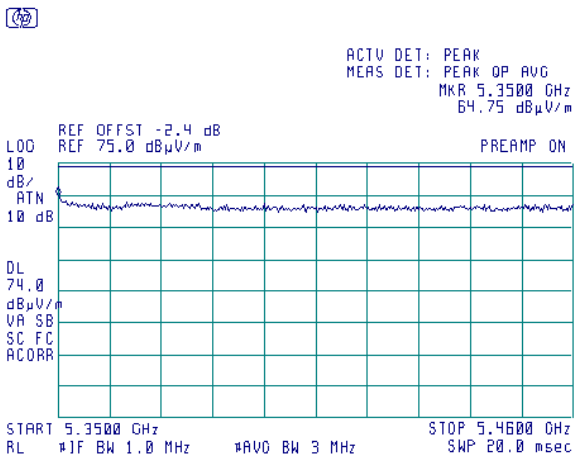
Plot 7.3.27 Radiated emission measurements at high edge (20 MHz EBW)

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak
MODULATION: BPSK 6 Mbps



Plot 7.3.28 Radiated emission measurements at high edge (20 MHz EBW)

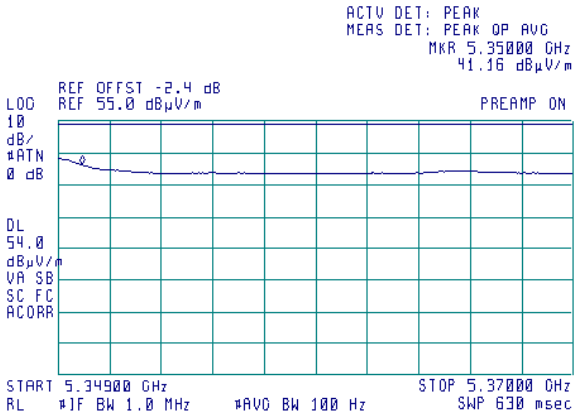
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak
MODULATION: BPSK 6 Mbps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

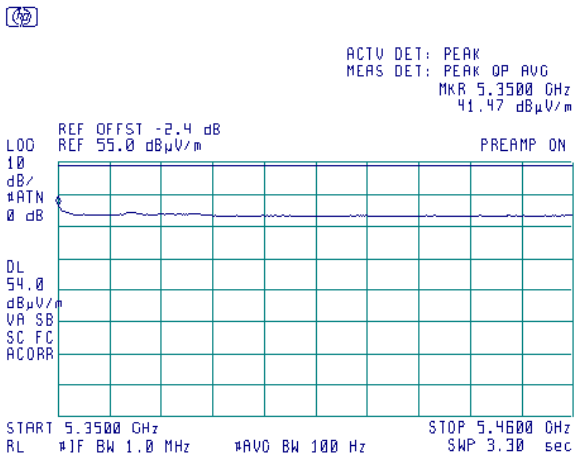
Plot 7.3.29 Radiated emission measurements at high edge (20 MHz EBW)

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average
MODULATION: BPSK 6 Mbps



Plot 7.3.30 Radiated emission measurements at high edge (20 MHz EBW)

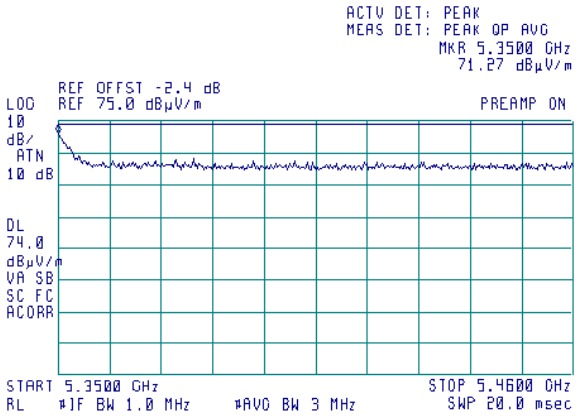
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average
MODULATION: BPSK 6 Mbps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

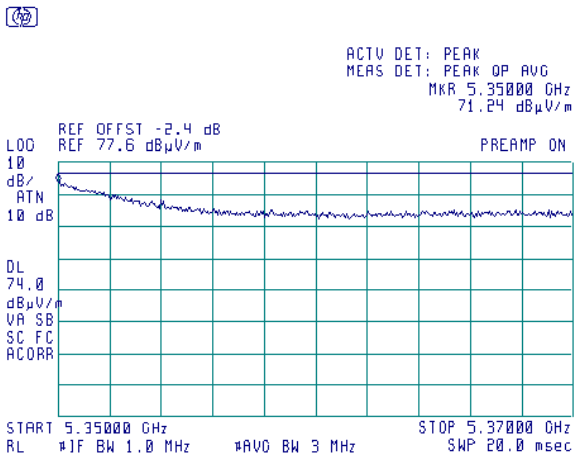
Plot 7.3.31 Radiated emission measurements at high edge (20 MHz EBW)

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak
MODULATION: 64QAM 54 Mbps



Plot 7.3.32 Radiated emission measurements at high edge (20 MHz EBW)

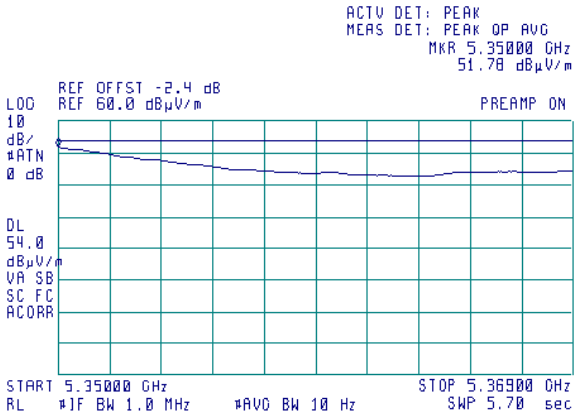
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Peak
MODULATION: 64QAM 54 Mbps



Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with internal antenna			

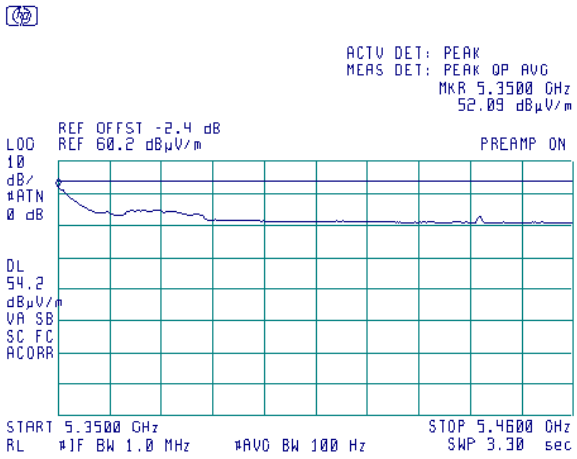
Plot 7.3.33 Radiated emission measurements at high edge (20 MHz EBW)

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average
MODULATION: 64QAM 54 Mbps



Plot 7.3.34 Radiated emission measurements at high edge (20 MHz EBW)

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR Average
MODULATION: 64QAM 54 Mbps



Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Table 7.3.6 Bandedge emission field strength test results

ASSIGNED FREQUENCY RANGE: 5250 – 5350 MHz
TEST DISTANCE: 3 m
TEST SITE: OATS
EUT HEIGHT: 0.8 m
DETECTOR USED: Peak
TRANSMITTER OUTPUT POWER SETTINGS: "3 dBm" at 5 MHz channel bandwidth
"6 dBm" at 10 MHz channel bandwidth
"9 dBm" at 20 MHz channel bandwidth
RBW: 1 MHz
VIDEO BANDWIDTH: > Resolution bandwidth
TEST ANTENNA TYPE: Double ridged guide (above 1000 MHz)
MODULATION: BPSK/64QAM

Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	Output power settings, dBm	Field strength dBuV/m	Limit, dBuV/m	Margin*, dB	Antenna polarity	Antenna height, m	TT***, degree
Edge	Channel										
Low edge											
5250	5255	BPSK	1.5	5	3	55.67	68.23	-12.46	Vertical	1.0	0
5250	5255	64QAM	13.5	5	3	56.00	68.23	-12.23	Vertical	1.0	0
5250	5257.5	BPSK	3	10	6	66.00	68.23	-2.23	Vertical	1.0	0
5250	5257.5	64QAM	27	10	6	56.00	68.23	-12.23	Vertical	1.0	0
5250	5262.5	BPSK	6	20	9	67.00	68.23	-1.00	Vertical	1.0	0
5250	5262.5	64QAM	54	20	9	61.67	68.23	-6.46	Vertical	1.0	0

*****- Margin = Field strength of spurious – calculated field strength limit.
******- EUT front panel refers to 0 degrees position of turntable.

Table 7.3.7 Substitution EIRP of bandedge emissions test results

ASSIGNED FREQUENCY RANGE: 5250 – 5350 MHz
TEST SITE: OATS
TEST DISTANCE: 3 m
SUBSTITUTION ANTENNA HEIGHT: 0.8 m
DETECTOR USED: Peak
RBW: 1 MHz
VIDEO BANDWIDTH: > Resolution bandwidth
SUBSTITUTION ANTENNA TYPE: Double ridged guide

Frequency, MHz		Field strength, dB(µV/m)	Antenna polariz.	Ant gain, dBi	Cable loss, dB	RF generator output, dBm	EIRP, dBm/MHz	Limit, dBm/MHz	Margin, dB*	Verdict
Edge	Channel									
5250.00	5255	55.67	Vertical	10.26	4.28	-46.46	-40.48	-27.0	-13.48	Pass
5250.00	5255	56.00	Vertical	10.26	4.28	-46.23	-40.25	-27.0	-13.25	
5250.00	5257.5	66.00	Vertical	10.26	4.28	-36.23	-30.25	-27.0	-3.25	
5250.00	5257.5	56.00	Vertical	10.26	4.28	-46.23	-40.25	-27.0	-13.25	
5250.00	5262.5	67.00	Vertical	10.26	4.28	-29.02	-29.92	-27.0	-2.92	
5250.00	5262.5	61.67	Vertical	10.26	4.28	-40.46	-34.48	-27.0	-7.48	

*****- Margin = Spurious emission – specification limit.

Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Table 7.3.8 Field strength of bandedge emissions within restricted bands

ASSIGNED FREQUENCY RANGE: 5250 - 5350 MHz
TEST DISTANCE: 3 m
MODULATION: BPSK/64QAM
TRANSMITTER OUTPUT POWER SETTINGS: "3 dBm" at 5 MHz channel bandwidth
"6 dBm" at 10 MHz channel bandwidth
"9 dBm" at 20 MHz channel bandwidth
DETECTOR USED: Peak
RESOLUTION BANDWIDTH: 1000 kHz
TEST ANTENNA TYPE: Double ridged guide

Frequency, MHz	Bit rate, Mbps	Antenna		Azimuth degrees	Peak field strength (VBW 3 MHz)			Average field strength (VBW 10 Hz			Verdict
		Polarization	Height m		Measured, dB(µV/m)	Limit, dB(µV/m)	Margin*, dB	Measured, dB(µV/m)	Limit, dB(µV/m)	Margin*, dB	
20 MHz EBW											
5350	6	Vertical	1.0	0	61.00	74.0	-12.00	47.83	54.00	-6.17	Pass
5350	54	Vertical	1.0	0	71.33	74.0	-2.67	51.83	54.00	-2.17	
10 MHz EBW											
5350	3	Vertical	1.0	0	65.17	74.0	-8.83	51.17	54.00	-2.83	Pass
5350	27	Vertical	1.0	0	71.66	74.0	-2.34	50.83	54.00	-3.17	
5 MHz EBW											
5350	1.5	Vertical	1.0	0	67.00	74.0	-7.00	49.81	54.00	-4.19	Pass
5350	13.5	Vertical	1.0	0	70.50	74.0	-3.50	52.50	54.00	-1.50	

*- Margin = Measured emission – specification limit.

Reference numbers of test equipment used

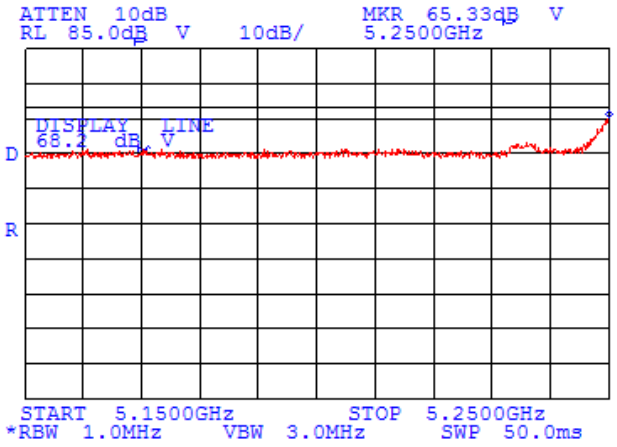
HL 0521	HL 0661	HL 1947	HL 1984	HL 2432	HL 3120	HL 3121	

Full description is given in Appendix A.

Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

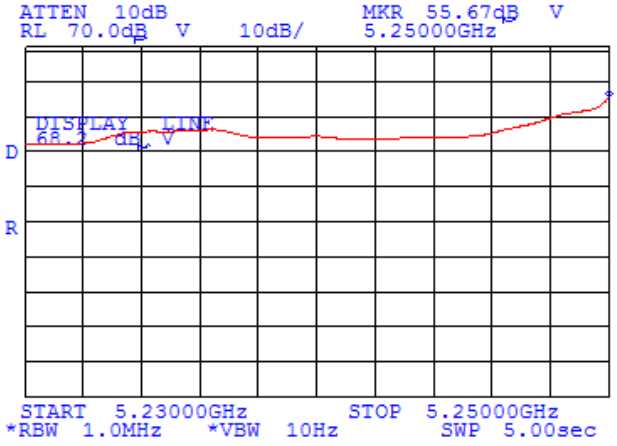
Plot 7.3.35 Radiated emission measurements at low edge (5 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	BPSK 1.5 Mbps



Plot 7.3.36 Radiated emission measurements at low edge (5 MHz EBW)

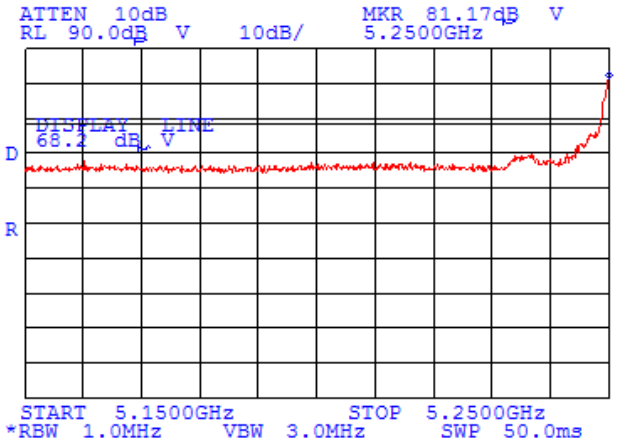
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	BPSK 1.5 Mbps



Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

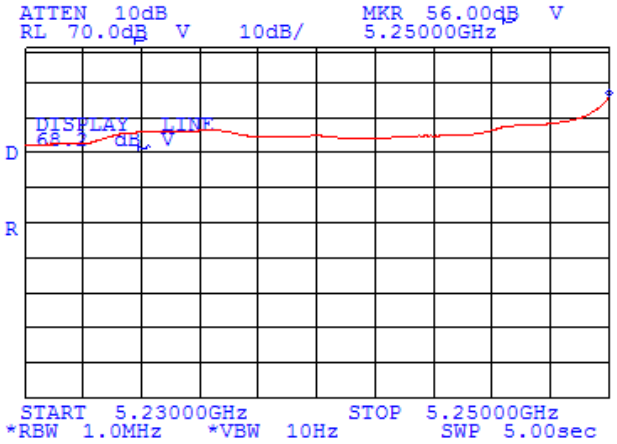
Plot 7.3.37 Radiated emission measurements at low edge (5 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	64QAM 13.5 Mbps



Plot 7.3.38 Radiated emission measurements at low edge (5 MHz EBW)

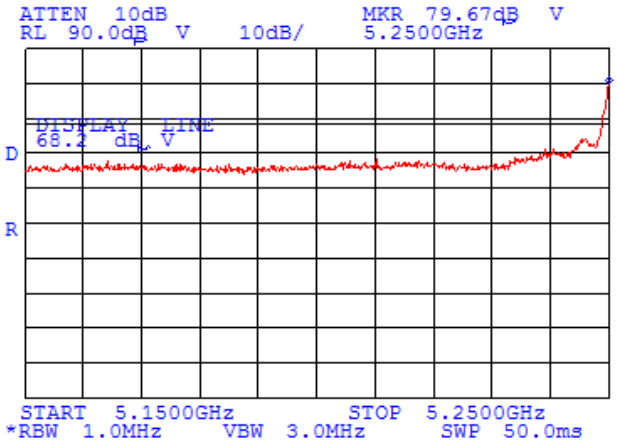
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	64QAM 13.5 Mbps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

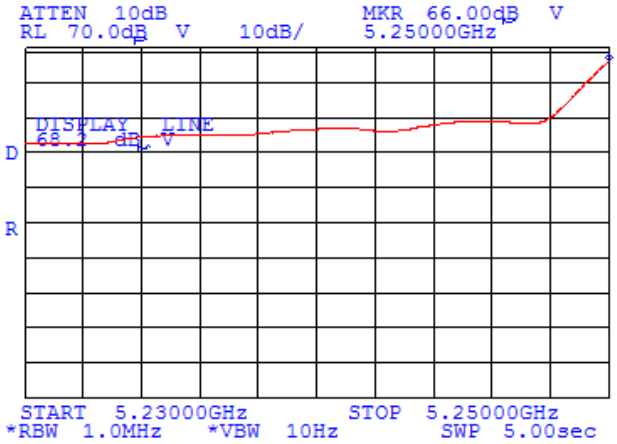
Plot 7.3.39 Radiated emission measurements at low edge (10 MHz EBW)

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



Plot 7.3.40 Radiated emission measurements at low edge (10 MHz EBW)

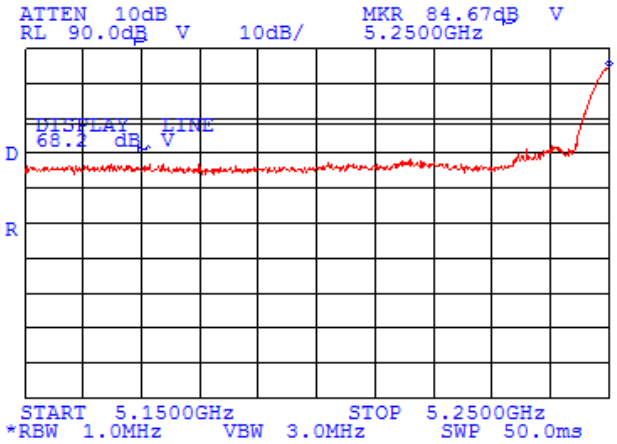
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	BPSK 3 Mbps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

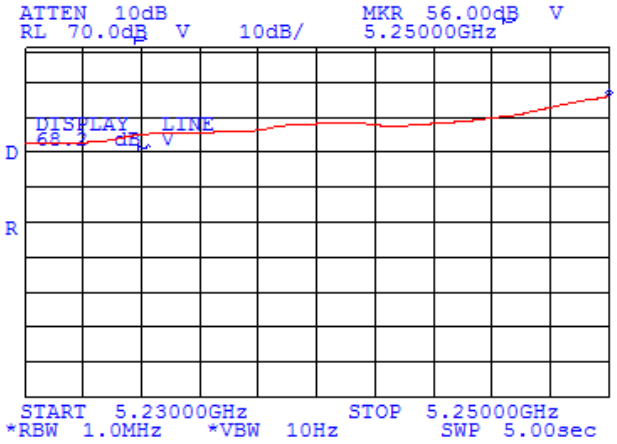
Plot 7.3.41 Radiated emission measurements at low edge (10 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	64QAM 27 Mbps



Plot 7.3.42 Radiated emission measurements at low edge (10 MHz EBW)

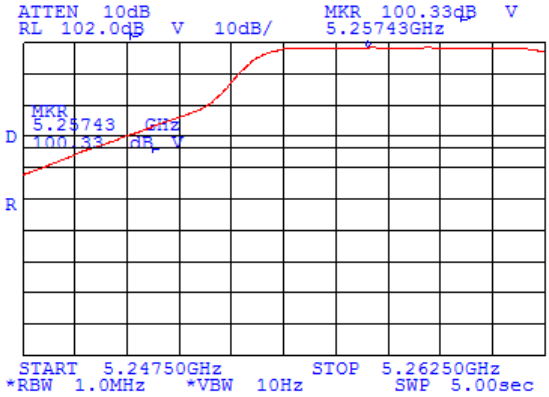
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	64QAM 27 Mbps

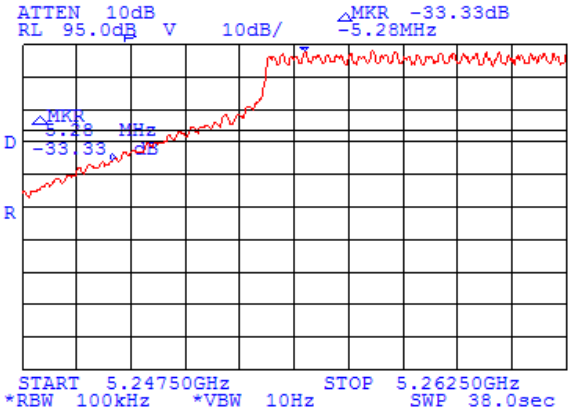


Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.3.43 Radiated emission measurements at low edge by delta method (20 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	BPSK 6 Mbps



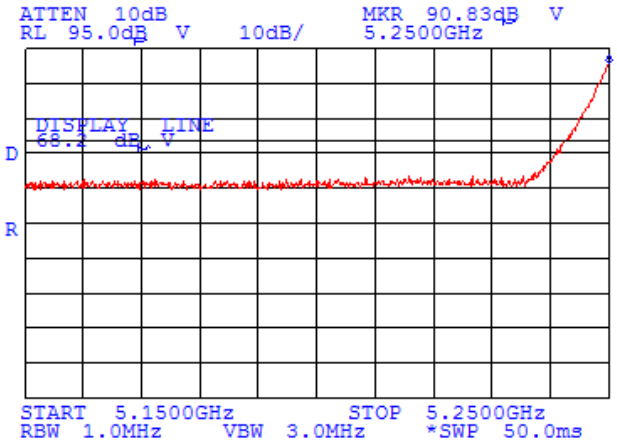


The field strength determined by delta method is equal to 67.00 dBµV/m

Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

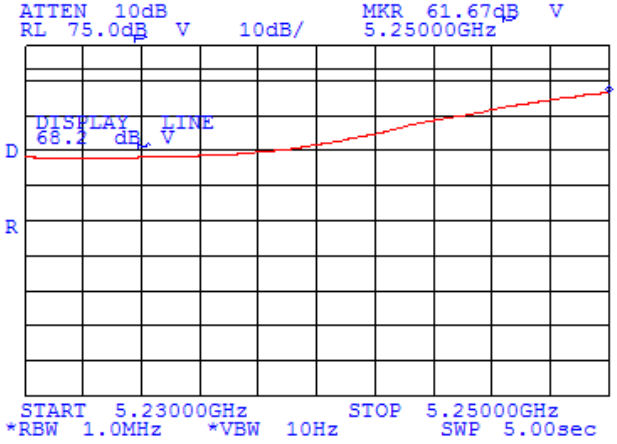
Plot 7.3.44 Radiated emission measurements at low edge (20 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	64QAM 54 Mbps



Plot 7.3.45 Radiated emission measurements at low edge (20 MHz EBW)

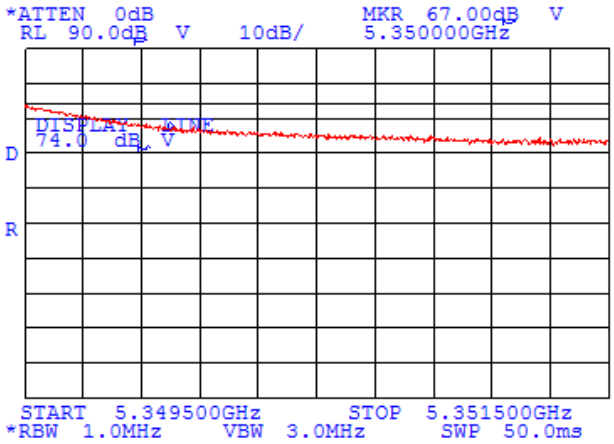
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	64QAM 54 Mbps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

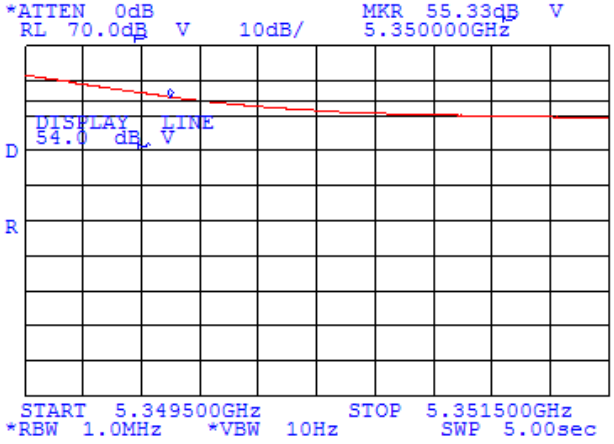
Plot 7.3.46 Radiated emission measurements at high edge (5 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	BPSK 1.5 Mbps



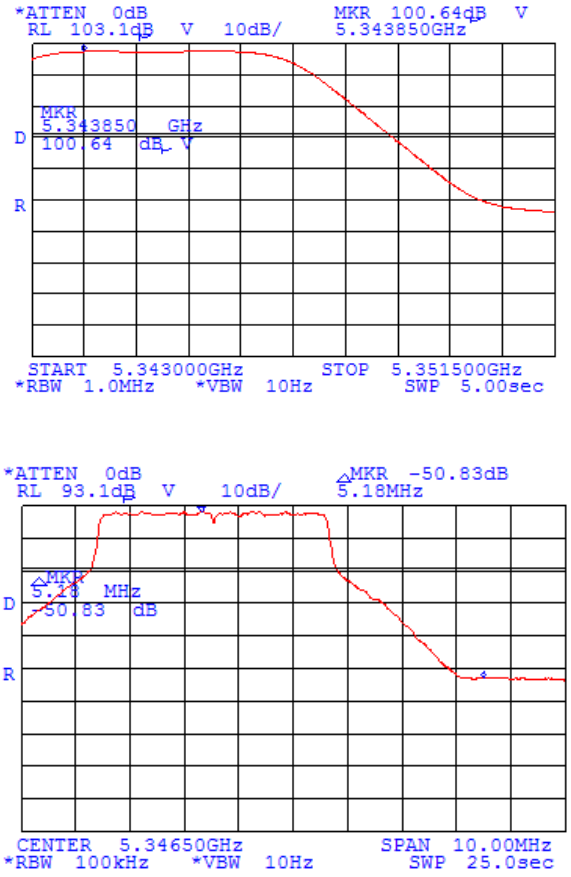
Plot 7.3.47 Radiated emission measurements at high edge (5 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	BPSK 1.5 Mbps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.3.48 Radiated emission measurements at high edge (5 MHz EBW) by delta method

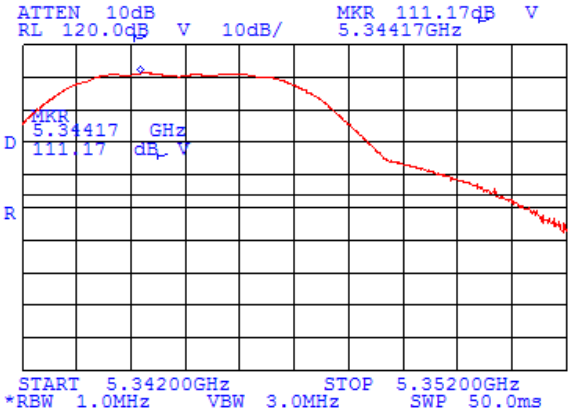


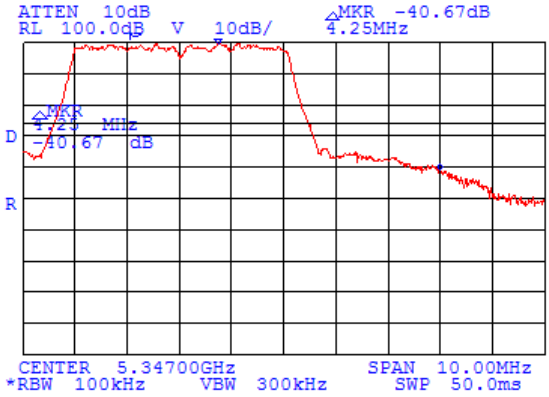
The field strength determined by delta method is equal to 49.81 dBµV/m

Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.3.49 Radiated emission measurements at high edge (5 MHz EBW) by delta method

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	64QAM 13.5 Mbps



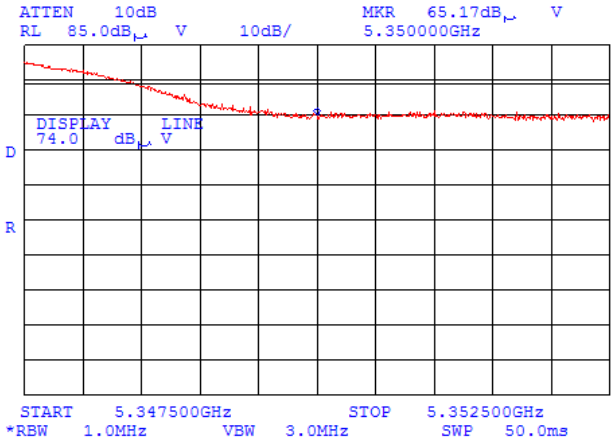


The field strength determined by delta method is equal to 70.5 dBµV/m - Peak measurement

Test specification:	**Section 15.407(b), RSS-210 Annex 9, section A9.3** **Out of band undesirable emissions**		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

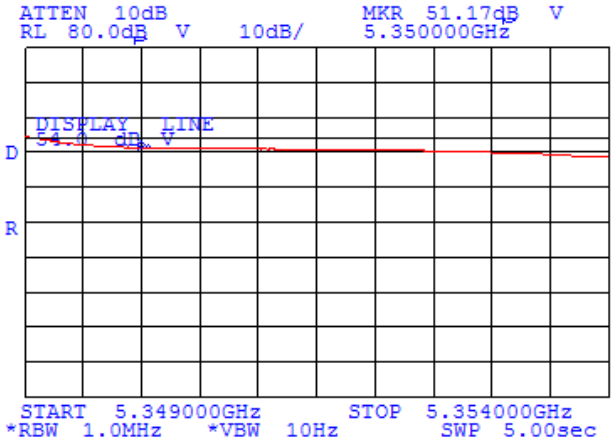
Plot 7.3.50 Radiated emission measurements at high edge (10 MHz EBW)

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



Plot 7.3.51 Radiated emission measurements at high edge (10 MHz EBW)

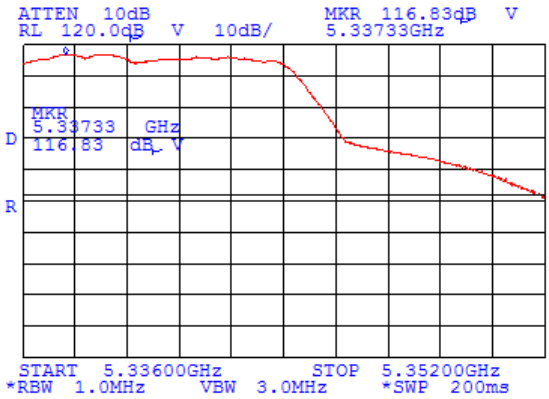
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	BPSK 3 Mbps

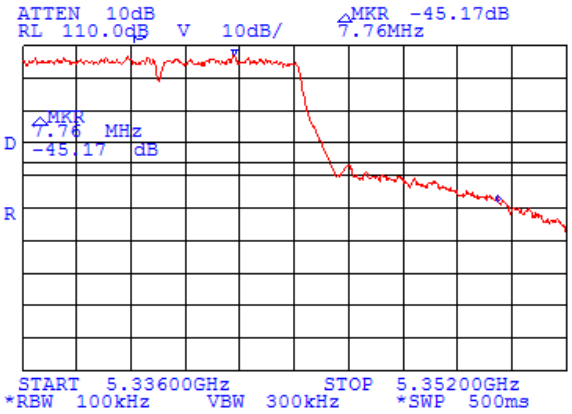


Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.3.52 Radiated emission measurements at high edge (10 MHz EBW) by delta method

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	64QAM 27 Mbps



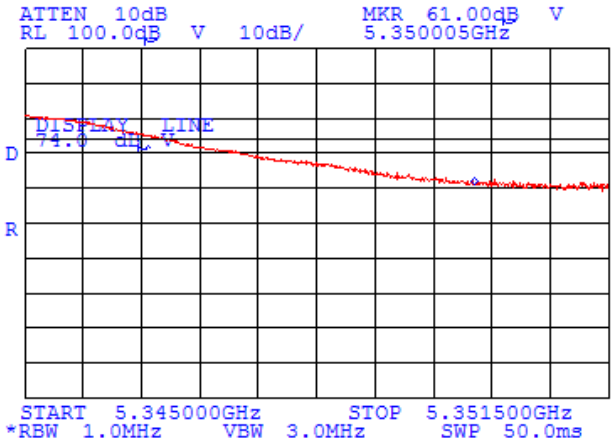


The field strength determined by delta method is equal to 71.66 dBµV/m

Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

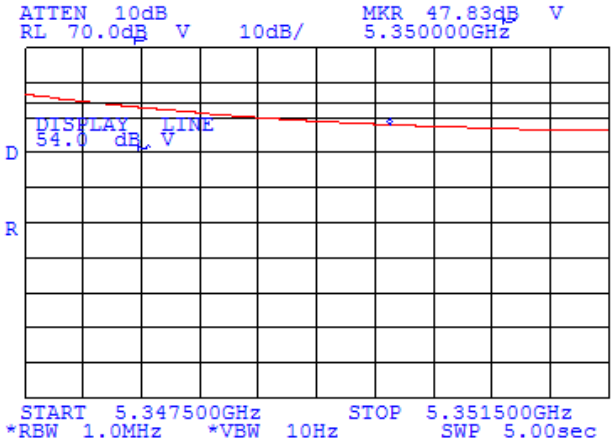
Plot 7.3.53 Radiated emission measurements at high edge (20 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	BPSK 6 Mbps



Plot 7.3.54 Radiated emission measurements at high edge (20 MHz EBW)

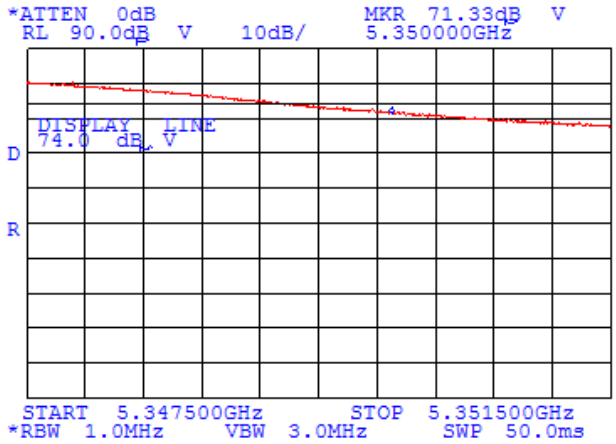
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	BPSK 6 Mbps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

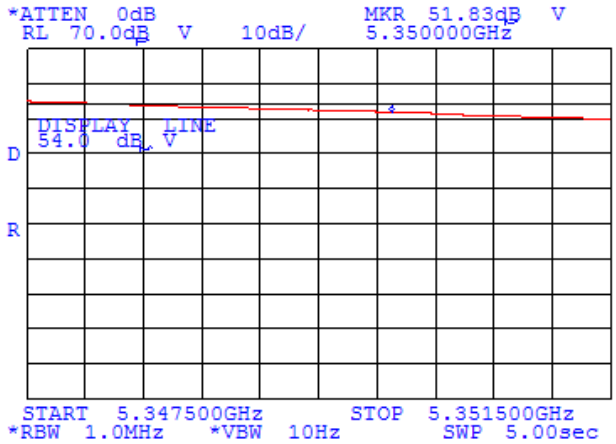
Plot 7.3.55 Radiated emission measurements at high edge (20 MHz EBW)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Peak
MODULATION:	64QAM 54 Mbps



Plot 7.3.56 Radiated emission measurements at high edge (20 MHz EBW)

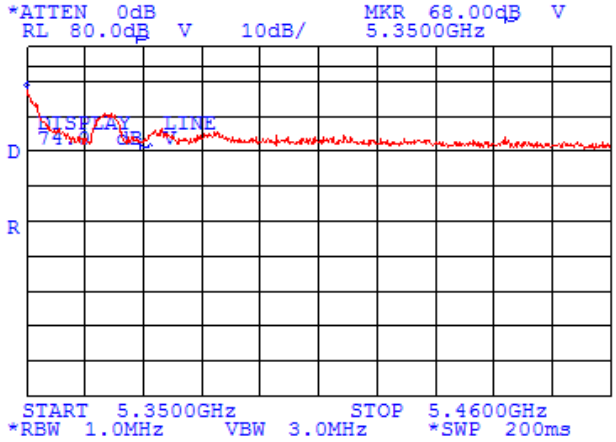
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR	Average
MODULATION:	64QAM 54 Mbps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

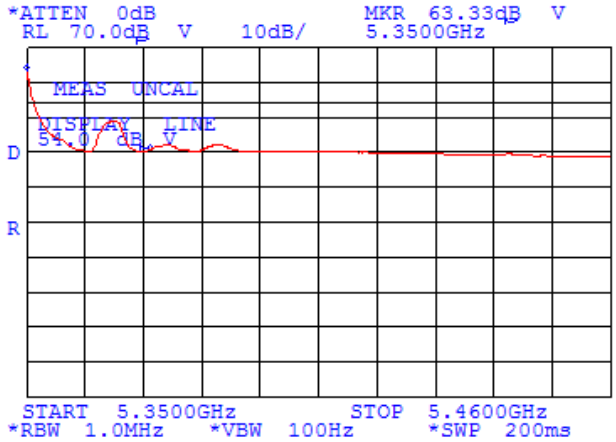
Plot 7.3.57 Radiated emission measurements from 5.35 to 5.46 GHz at the high carrier frequency (5345 MHz)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR:	Peak
EBW	5 MHz
MODULATION	BPSK 1.5 Mbps



Plot 7.3.58 Radiated emission measurements from 5.35 to 5.46 GHz at the high carrier frequency (5345 MHz)

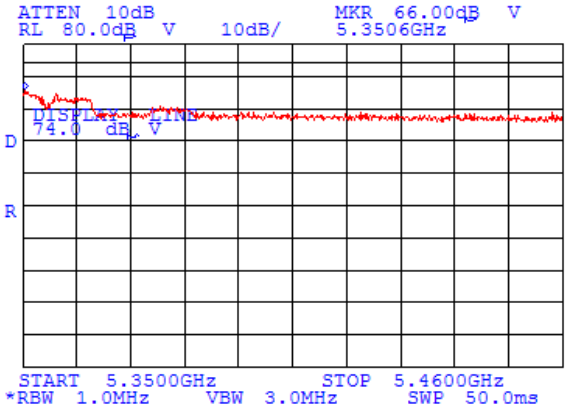
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR:	Average
EBW	5 MHz
MODULATION	BPSK 1.5 Mbps



Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

Plot 7.3.59 Radiated emission measurements from 5.35 to 5.46 GHz at the high carrier frequency (5340 MHz)

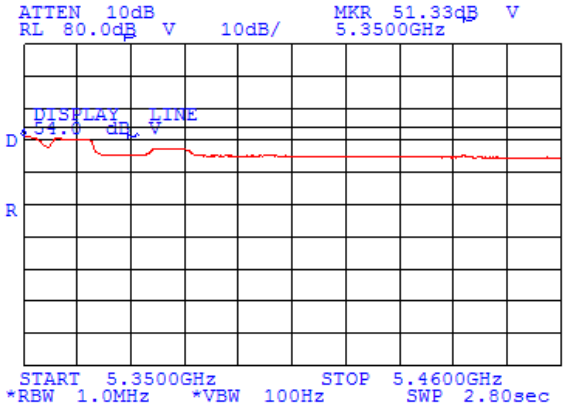
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR:	Peak
EBW	10 MHz
MODULATION	BPSK 3 Mbps



5357 MHz: 63.83 dBuV/m

Plot 7.3.60 Radiated emission measurements from 5.35 to 5.46 GHz at the high carrier frequency (5340 MHz)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR:	Average
EBW	10 MHz
MODULATION	BPSK 3 Mbps

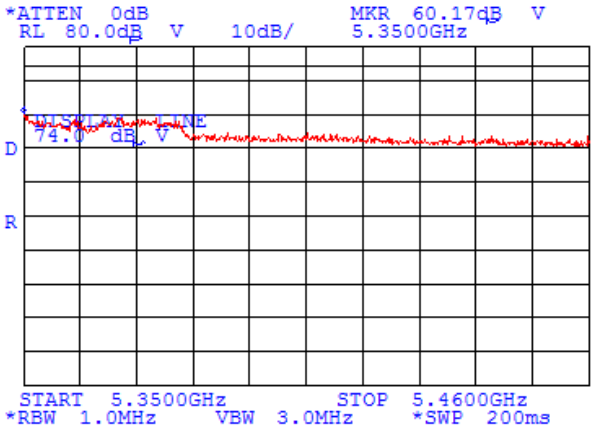


5357 MHz – 50.83 dBuV/m

Test specification:	Section 15.407(b), RSS-210 Annex 9, section A9.3 Out of band undesirable emissions		
Test procedure:	Public notice DA02-2138		
Test mode:	Compliance	**Verdict:**	PASS
Date:	7/16/2008		
Temperature: 24ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 48 %	**Power Supply:** 120 VAC
Remarks: EUT with external antenna			

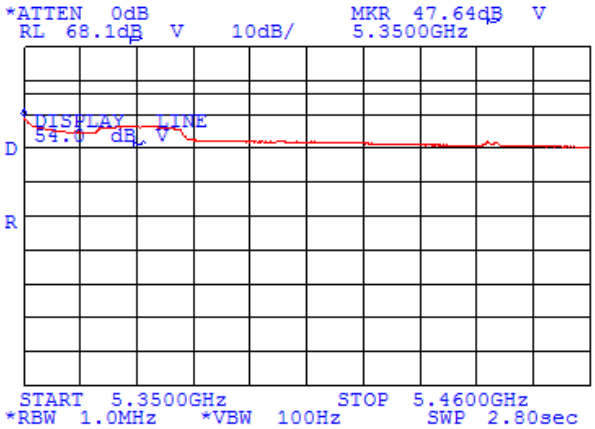
Plot 7.3.61 Radiated emission measurements from 5.35 to 5.46 GHz at the high carrier frequency (5332.5 MHz)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR:	Peak
EBW	20 MHz
MODULATION	BPSK 6 Mbps



Plot 7.3.62 Radiated emission measurements from 5.35 to 5.46 GHz at the high carrier frequency (5332.5 MHz)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
DETECTOR:	Average
EBW	20 MHz
MODULATION	BPSK 6 Mbps



Test specification:	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 internal antenna, measurements below 1 GHz			

7.4 Field strength of spurious emissions

7.4.1 General

This test was performed to measure field strength of spurious emissions from the EUT. Specification test limits are given in Table 7.4.1.

Table 7.4.1 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 7.4.2 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

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

7.4.2.1 The EUT was set up as shown in Figure 7.4.1, energized and the performance check was conducted.

7.4.2.2 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.

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

7.4.3 Test procedure for spurious emission field strength measurements above 30 MHz

7.4.3.1 The EUT was set up as shown in Figure 7.4.2, energized and the performance check was conducted.

7.4.3.2 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.

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

Test specification:	**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 internal antenna, measurements below 1 GHz			

Figure 7.4.1 Setup for spurious emission field strength measurements below 30 MHz

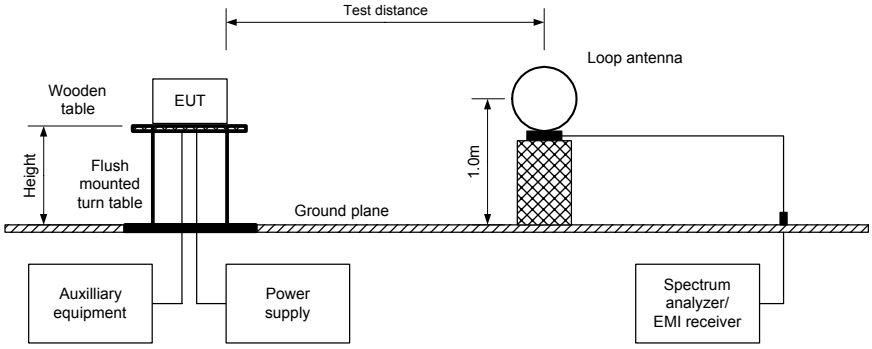
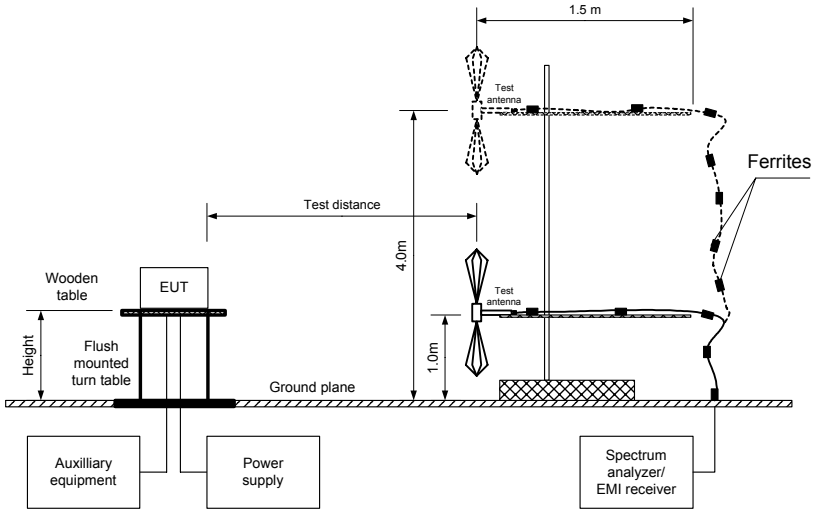


Figure 7.4.2 Setup for spurious emission field strength measurements above 30 MHz



Test specification:	**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 internal antenna, measurements below 1 GHz			

Table 7.4.3 Field strength of spurious emissions below 1 GHz

ASSIGNED FREQUENCY RANGE:	5250 - 5350 MHz
INVESTIGATED FREQUENCY RANGE:	0.009 – 1000 MHz
TEST DISTANCE:	3 m
MODULATION:	BPSK
BIT RATE:	1.5Mbps at 5 MHz EBW; 3 Mbps at 10 MHz EBW; 6 Mbps at 20 MHz EBW
DUTY CYCLE:	100 %
TRANSMITTER OUTPUT POWER SETTINGS:	"2 dBm" at 5 MHz channel bandwidth "5 dBm" at 10 MHz channel bandwidth "8 dBm" at 20 MHz channel bandwidth
RESOLUTION BANDWIDTH:	0.2 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)

Frequency, MHz		Peak, dB(V/m)	Quasi-peak			Antenna polarization	Antenna height, m	Turn-table position**, degrees	Verdict
Channel	Spurious		Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*				
5 MHz channel bandwidth									
5255	107.58	31.70	30.50	40.00	-9.50	Vertical	1.0	135	Pass
5255	666.60	30.10	28.90	46.00	-17.10	Vertical	1.0	90	
5255	933.30	40.80	39.90	46.00	-6.10	Vertical	1.0	225	
5300	69.21	28.90	27.50	40.00	-12.50	Vertical	1.0	90	
5300	462.30	29.90	28.80	46.00	-17.20	Vertical	1.0	90	
5300	933.30	42.90	42.10	46.00	-3.90	Vertical	1.0	225	
5345	107.45	31.20	30.10	40.00	-9.90	Vertical	1.0	180	
5345	666.60	29.90	28.30	46.00	-17.70	Vertical	1.0	90	
5345	933.30	42.80	41.90	46.00	-4.10	Vertical	1.0	225	
10 MHz channel bandwidth									
5257.5	72.95	30.10	28.90	40.00	-11.10	Vertical	1.0	0	Pass
5257.5	108.70	31.20	30.40	43.50	-13.10	Vertical	1.0	45	
5257.5	933.30	43.80	42.50	46.00	-3.50	Vertical	1.0	225	
5300	69.20	29.50	27.80	40.00	-12.20	Vertical	1.0	90	
5300	666.60	29.70	26.90	46.00	-19.10	Vertical	1.0	90	
5300	933.30	42.90	42.00	46.00	-4.00	Vertical	1.0	225	
5340	73.25	28.70	26.10	40.00	-13.90	Vertical	1.0	180	
5340	666.60	29.10	27.50	46.00	-18.50	Vertical	1.0	90	
5340	933.30	42.50	41.70	46.00	-4.30	Vertical	1.0	225	
20 MHz channel bandwidth									
5262.5	108.75	32.30	31.10	43.50	-12.40	Vertical	1.0	180	Pass
5262.5	666.60	29.80	27.90	46.00	-18.10	Vertical	1.0	180	
5262.5	933.30	43.50	42.30	46.00	-3.70	Vertical	1.0	270	
5300	107.65	33.20	31.80	43.50	-11.70	Vertical	1.0	180	
5300	933.30	43.10	42.20	46.00	-3.80	Vertical	1.0	225	
5332.5	108.75	31.10	30.00	43.50	-13.50	Vertical	1.0	45	
5332.5	666.60	29.60	28.50	46.00	-17.50	Vertical	1.0	180	
5332.5	933.33	44.90	44.10	46.00	-1.90	Vertical	1.0	270	

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

Reference numbers of test equipment used

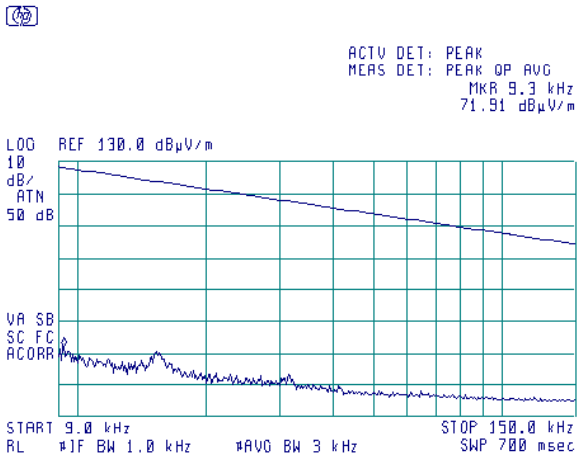
HL 0446	HL 0521	HL 0589	HL 0604	HL 1425	HL 1556	HL 1947	HL 1984
HL 2909	HL 2910	HL 3123					

Full description is given in Appendix A.

Test specification:	**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 internal antenna, measurements below 1 GHz			

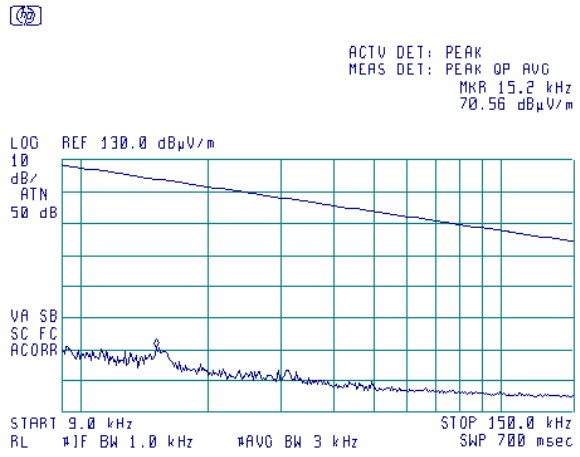
Plot 7.4.1 Radiated emission measurements from 9 to 150 kHz at the low carrier frequency (5255 MHz)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
MODULATION	OFDM BPSK
EBW	5MHz



Plot 7.4.2 Radiated emission measurements from 9 to 150 kHz at the low carrier frequency (5257.5 MHz)

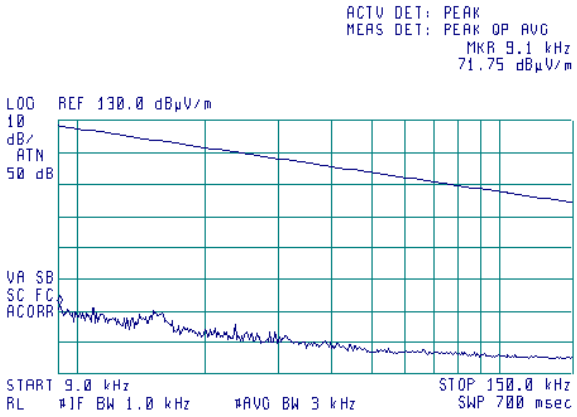
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
MODULATION	OFDM BPSK
EBW	10MHz



Test specification:	**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 internal antenna, measurements below 1 GHz			

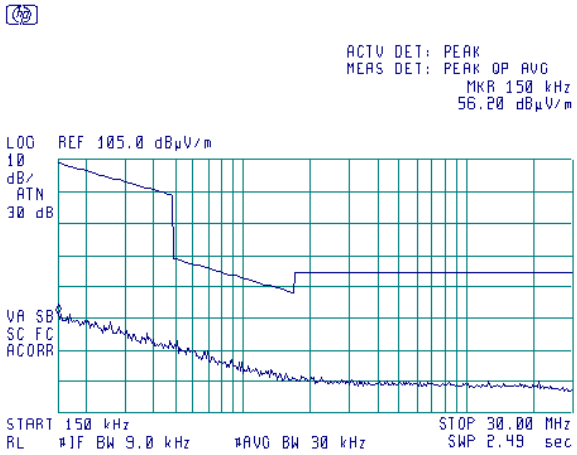
Plot 7.4.3 Radiated emission measurements from 9 to 150 kHz at the low carrier frequency (5262.5 MHz)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
MODULATION	OFDM BPSK
EBW	20MHz



Plot 7.4.4 Radiated emission measurements from 0.15 to 30 MHz at the low carrier frequency (5255 MHz)

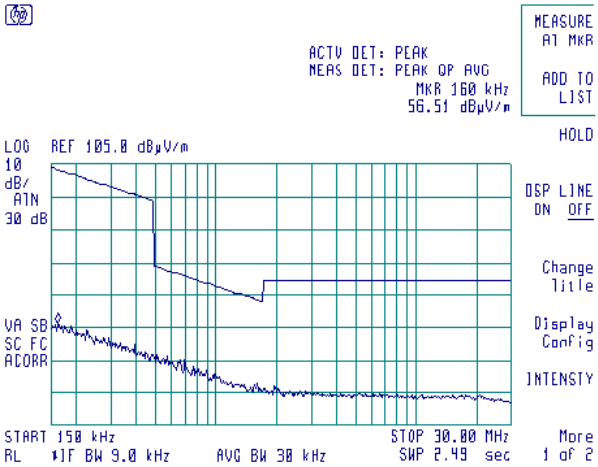
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
MODULATION	OFDM BPSK
EBW	5MHz



Test specification:	**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 internal antenna, measurements below 1 GHz			

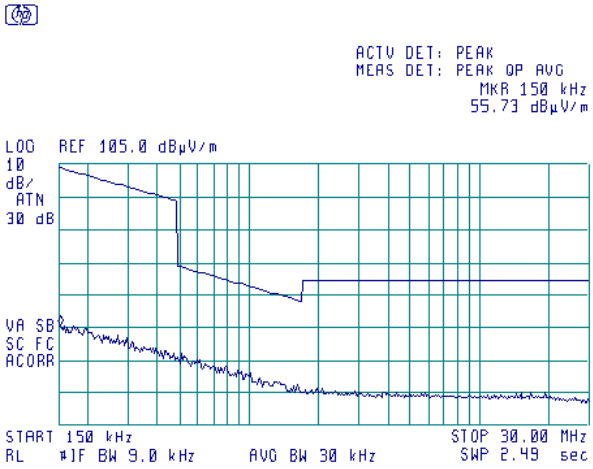
Plot 7.4.5 Radiated emission measurements from 0.15 to 30 MHz at the low carrier frequency (5257.5 MHz)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
MODULATION	OFDM BPSK
EBW	10MHz



Plot 7.4.6 Radiated emission measurements from 0.15 to 30 MHz at the low carrier frequency (5262.5 MHz)

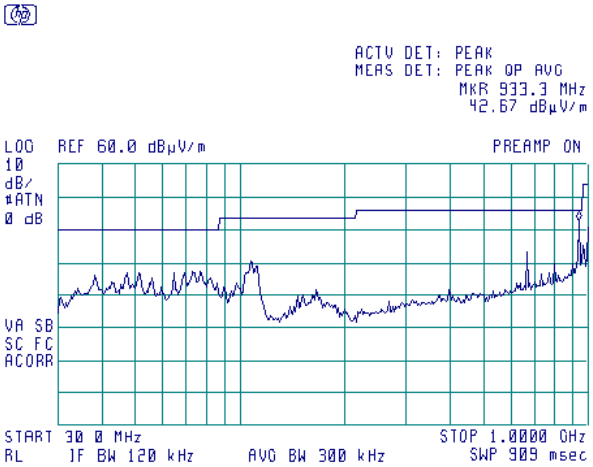
TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
MODULATION	OFDM BPSK
EBW	20MHz



Test specification:	**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 internal antenna, measurements below 1 GHz			

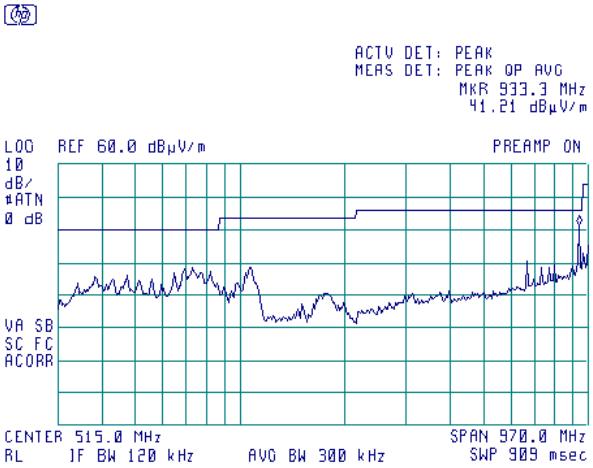
Plot 7.4.7 Radiated emission measurements from 30 to 1000 MHz at the low carrier frequency (5255 MHz)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
MODULATION	OFDM BPSK
EBW	5MHz



Plot 7.4.8 Radiated emission measurements from 30 to 1000 MHz at the low carrier frequency (5257.5 MHz)

TEST SITE:	Anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal
MODULATION	OFDM BPSK
EBW	10MHz



Note: all spurious from digital part of EUT.