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

FOR:

RadWin Ltd.

Outdoor radio unit operating in the 5.8 GHz band

Model:RADWIN 1000, RADWIN 2000

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

Report ID: RDWRAD\_FCC.20597\_rev1.doc

Date of Issue: April 2010



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## 1 Applicant information

Client name: RadWin Ltd.

Address: 32 Habarzel str., Tel Aviv 69710, Israel

**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 5.8 GHz band

**Product type:** Point to point transceiver

 Model(s):
 RADWIN 2000

 Serial number:
 PUI580E100999999

Receipt date 3/22/2010

#### 3 Manufacturer information

Manufacturer name: RadWin Ltd.

Address: 32 Habarzel str., Tel Aviv 69710, Israel,

**Telephone:** +972 3766 2988 **Fax:** +972 3766 2922

**E-Mail:** shlomo\_weiss@radwin.com

Contact name: Mr. Shlomo Weiss

### 4 Test details

Project ID: 20597

**Location:** Hermon Laboratories Ltd. P.O.Box 23, Binyamina 30500, Israel

 Test started:
 3/22/2010

 Test completed:
 4/15/2010

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	Pass
to the peak transmit power	
FCC Section 15.407(b) / RSS-210, Section A9.3, Unwanted radiated emission	Pass
FCC Section 15.407(b) / RSS-210, Section A9.3, Unwanted conducted emission	Pass
FCC Section 15.407(b)(6), 15.207/ RSS-Gen, Section 7.2.2, Conducted emission	Pass
FCC Section 15.407(f), / RSS-Gen, Section 5.5, RF exposure	Pass
FCC Section 15.407(g), / RSS-210, Section A9.5, Frequency stability	Pass
RSS-Gen, Section 7.2.3.2, Receiver spurious radiated emission	Pass
RSS-Gen, Section 4.6.1, 99% emission occupied bandwidth	Measured

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

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

This test report replaces the previously issued test report identified by Doc ID "RDWRAD\_FCC.20597".

	Name and Title	Date	Signature
Tested by:	Mr. S. Samokha, test engineer	April 15, 2010	Ca
Reviewed by:	Mrs. M. Cherniavsky, certification engineer	April 18, 2010	Chun
Approved by:	Mr. M. Nikishin, EMC and radio group manager	May 31, 2010	H



## 6 EUT description

## 6.1 General information

RADWIN 1000/RADWIN 2000 is an outdoor radio unit (ODU). The power and the Ethernet communication are supplied by an indoor unit (IDU) or PoE device. It has 2 antenna configurations – integrated and connectorized that can support dual pole antenna type. RADWIN 1000 activates one RF port and RADWIN 2000 – two ports.

### 6.2 Ports and lines

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

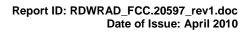
<sup>\*-</sup> corresponding feeder loss was supported by set of suitable attenuators

## 6.3 Support and test equipment

Description	Manufacturer	Model number	Serial number
IDU (for configuration with ODU)	RadWin Ltd.	IDU-E	DE000201267
AC/DC adapter	Switchbox	GPSU16E-8	EJ507542
Laptop	IBM	ThinkPad R50-e	99-DYCR3
AC/DC adapter	IBM	08K8202	11S08K8202Z1 ZAC755Y4F5

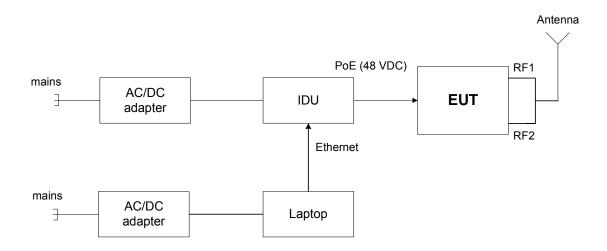
## 6.4 Changes made in the EUT

No changes were implemented.





## 6.5 Test configuration





## 6.6 Transmitter characteristics

Type of equipme	ent									
Stand-alo	ne (Equipm	ent wit	th or v	vithout its	own control prov	risions)				
ntended use	Condition	on of ι	ıse							
< fixed					e than 2 m from a	all people				
Assigned freque				- 5825 MI						
Operating freque	ency range		5730	- 5820 MI	Hz					
Maximum rated output power Peak (co						na 22.5 dBi & na 23.5 dBi	EBW 5 MHz 17.58 dBm EBW 10 MHz 26.39 dBm EBW 20 MHz 26.37 dBm EBW 40 MHz 24.44 dBm			
		(conduc	ted)	А	nten	na 28 dBi	EBW 5 MHz 11.68 dBm EBW 10 MHz 23.37 dBm EBW 20 MHz 24.54 dB EBW 40 MHz 23.85 dBm			
				Antenna 6 dBi		nna 6 dBi	EBW 5 MHz 23.14 dBm EBW 10 MHz 26.11 dBm EBW 20 MHz 26.71 dBm EBW 40 MHz 29.36 dBm			
Antenna connec	tion								·	
			stand				Х	with temporary RF connector		
unique coupling			type	ector, N-	integral			without temporary RF connector		
Antenna/s techn										
Гуре		anufac			Model number			Gain		
Flat Panel – Dual		adwin l	Ltd.		RW-9611-4958			6 dBi (23.5 d	IBi with 17.5 dB feeder loss)	
<u>polarized external</u> Dish – Dual polari: External		adwin l	Ltd.		RW-9721-5158			6 dBi (28.9 dBi with 22.9 dB feeder loss)		
Flat Panel – Dual polarized Integrate		adwin l	Ltd.		RW-9611-4958IN	58INT 22.5 dB		22.5 dBi		
Flat Panel – Dual polarized external		adwin l	Ltd.		RW-9611-4958			22.5 dBi (23.5 dBi with 1 dB feeder loss		
Dish – Dual polari: External	zed Ra	adwin l	Ltd.		RW-9721-5158			27.9 dBi (28.9 dBi with 1 dB feeder loss)		
Nominal cha	annel band	width		Transmi	itter aggregate o MBps	data rate/s	5,	T	ype of modulation	
ءِ	5 MHz				3.25			BPSK		
					32.5			64QAM		
1	0 MHz				6.5				BPSK	
10 1011 12			65				64QAM			
2	0 MHz				13				BPSK	
	♥ IE				130				64QAM	
4	0 MHz				27				BPSK	
7	· ··· · · ·				270				64QAM	
Maximum transn										

**Table 6.6.1 Measurement frequencies** 

Channel bandwidth, MHz	Channel frequency, MHz					
	Low band edge	Low in band	Mid	High in band	High band edge	
5	5730	5735	5775	5815	5820	
5 (with 6 dBi antenna)	5730	NA	5775	NA	5820	
10	5735	5740	5775	5810	5815	
10 (with 6 dBi antenna)	5730	5735	5775	5815	5820	
20 (with 6 dBi antenna)	5735	5740	5775	5810	5815	
20 (with 22.5 dBi and 28 dBi antennas)	5735	5755	5775	5795	5815	
40	5745	NA	5775	NA	5805	



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section 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:	3/24/2010	verdict.	FASS				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	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	
5725 - 5825	The lesser of 1 W or 17 dBm +10 log B**	17.0	1.0	

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

#### 7.1.2 Test procedure

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

Figure 7.1.1 Peak output power test setup







Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC				
Remarks: EUT with 6dBi antenna assembly gain							

### Table 7.1.2 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:

9 OFDM
Peak
1 MHz
3 MHz

METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)

ANTENNA ASSEMBLY GAIN 6 dBi EMISSION BANDWUIDTH 40 MHz

				10 1111 12						
Frequency,	26 dB	Bit Rate,		Output power						
	Bandwidth	MBps	Modulation	Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	Verdict		
Low channel l	Band Edge									
5745.0	46.800	27	BPSK	20.95	23.95	30.00	-6.05	Pass		
5745.0	47.400	270	64QAM	20.96	23.96	30.00	-6.04	Pass		
Mid channel										
5775.0	49.650	27	BPSK	26.36	29.36	30.00	-0.64	Pass		
5775.0	48.150	270	64QAM	26.26	29.26	30.00	-0.74	Pass		
High channel Band Edge										
5805.0	47.700	27	BPSK	20.09	23.09	30.00	-6.91	Pass		
5805.0	46.950	270	64QAM	19.95	22.95	30.00	-7.05	Pass		

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

<sup>\*\* -</sup> Margin = Total output power – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 6dBi antenna assembly gain							

Table 7.1.3 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:

9 OFDM
Peak
1 MHz
3 MHz

METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)

ANTENA ASSEMBLY GAIN 6 dBi EMISSION BANDWIDTH 20 MHz

LIVII 3 3 1 O N D	ANDWIDTH			20 1011 12				
Frequency,	26 dB	Bit Rate,			Output	power		
MHz	Bandwidth, MHz	MBps	Modulation	Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	Verdict
Low channel I	Band Edge							
5735	23.400	13	BPSK	15.37	18.37	30.00	-11.63	Pass
5735	23.700	130	64QAM	15.56	18.56	30.00	-11.44	Pass
Low channel I	n-Band							
5740	23.775	13	BPSK	23.55	26.55	30.00	-3.45	Pass
5740	23.325	130	64QAM	23.63	26.63	30.00	-3.37	Pass
Mid channel								
5775	24.375	13	BPSK	22.85	25.85	30.00	-4.15	Pass
5775	23.925	130	64QAM	23.71	26.71	30.00	-3.29	Pass
High channel	In-Band							
5810	24.000	13	BPSK	22.71	25.71	30.00	-4.29	Pass
5810	23.100	130	64QAM	22.30	25.30	30.00	-4.70	Pass
High channel	High channel Band Edge							
5815	23.550	13	BPSK	14.68	17.68	30.00	-12.32	Pass
5815	23.775	130	64QAM	14.74	17.74	30.00	-12.26	Pass

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

<sup>\*\* -</sup> Margin = Total output power – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC						
Remarks: EUT with 6dBi antenna assembly gain							

Table 7.1.4 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL: OFDM **DETECTOR USED:** Peak RESOLUTION BANDWIDTH: 1 MHz VIDEO BANDWIDTH: 3 MHz

METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)

ANTENNA ASSEMBLY GAIN 6 dBi EMISSION BANDWIDTH 10 MHz

LIVIIOGICIN DI				TO IVITIZ				
Frequency,	26 dB	Bit Rate,			Output p	ower		
MHz	Bandwidth, MHz	MBps	Modulation	Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	Verdict
Low channel	Band Edge							
5730	14.350	6.5	BPSK	11.03	14.03	28.07	-14.04	Pass
5730	13.400	65	64QAM	11.42	14.42	27.77	-13.35	Pass
Low channel	In-Band							
5735	15.150	6.5	BPSK	22.65	25.65	28.30	-2.65	Pass
5735	14.000	65	64QAM	22.58	25.58	27.96	-2.38	Pass
Mid channel								
5775	14.200	6.5	BPSK	22.64	25.64	28.02	-2.38	Pass
5775	14.700	65	64QAM	23.11	26.11	28.17	-2.06	Pass
High channe	I In-Band							
5815	14.150	6.5	BPSK	22.21	25.21	28.01	-2.80	Pass
5815	14.650	65	64QAM	21.85	24.85	28.16	-3.31	Pass
High channe	Band Edge							
5820	14.750	6.5	BPSK	9.71	12.71	28.19	-15.48	Pass
5820	14.050	65	64QAM	9.70	12.70	27.98	-15.28	Pass

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

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





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	38, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	FASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 6dBi antenna assembly gain						

### Table 7.1.5 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
Peak
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
1 MHz
3 MHz

METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)

ANTENA ASSEMBLY GAIN 6 dBi EMISSION BANDWIDTH 5 MHz

EMICOTOR BY MAD WIDTH									
Frequency,	26 dB	I Bit Rate				Output power			
MHz	Bandwidth, MHz	MBps	Modulation	Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	Verdict	
Low channel	Band Edge								
5730	6.750	3.25	BPSK	20.14	23.14	24.79	-1.65	Pass	
5730	6.825	32.5	64QAM	20.04	23.04	24.84	-1.80	Pass	
Mid channel									
5775	6.900	3.25	BPSK	20.01	23.01	24.89	-1.88	Pass	
5775	6.825	32.5	64QAM	19.62	22.62	24.84	-2.22	Pass	
High channe	l Band Edge								
5820	7.050	3.25	BPSK	19.22	22.22	24.98	-2.76	Pass	
5820	6.800	32.5	64QAM	18.59	21.59	24.83	-3.24	Pass	

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

#### Reference numbers of test equipment used

HL 2909	HL 2953	HL 3768	HL 3776	HL 3787		

Full description is given in Appendix A.

<sup>\*\* -</sup> Margin = Total output power – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC						
Remarks: EUT with 6dBi antenna assembly gain							

### Table 7.1.6 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL: OFDM
DETECTOR USED: Sample
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz

METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

ANTENNA ASSEMBLY GAIN 6 dBi EMISSION BANDWIDTH 40 MHz

LIVIIOOIOIV		1	·	TO IVII IZ					
Eroguency	Frequency, Bit Rate, Madulation			Peak power spectral density					
MHz	MBps	Modulation	Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	Verdict		
Low channel	Band Edge								
5745.0	27	BPSK	0.91	3.91	17.0	-13.09	Pass		
5745.0	270	64QAM	0.90	3.90	17.0	-13.10	Pass		
Mid channel									
5775.0	27	BPSK	6.18	9.18	17.0	-7.82	Pass		
5775.0	270	64QAM	6.23	9.23	17.0	-7.77	Pass		
High channel Band Edge									
5805.0	27	BPSK	0.51	3.51	17.0	-13.49	Pass		
5805.0	270	64QAM	0.14	3.14	17.0	-13.86	Pass		

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

<sup>\*\* -</sup> Margin = Total peak power density - specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 6dBi antenna assembly gain							

Table 7.1.7 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
3 MHz

METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

ANTENA ASSEMBLY GAIN 6 dBi EMISSION BANDWIDTH 20 MHz

LIVIIOGICITE	e, 12 11 12 1 1			-O IVII IZ				
Frequency,	Bit Rate,			Peak power spectral	density			
MHz MBps	Modulation	Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	Verdict		
Low channel	Band Edge							
5735	13	BPSK	-1.99	1.01	17.0	-15.99	Pass	
5735	130	64QAM	-2.29	0.71	17.0	-16.29	Pass	
Low channel	In-Band							
5740	13	BPSK	7.36	10.36	17.0	-6.64	Pass	
5740	130	64QAM	6.68	9.68	17.0	-7.32	Pass	
Mid channel								
5775	13	BPSK	6.46	9.46	17.0	-7.54	Pass	
5775	130	64QAM	5.99	8.99	17.0	-8.01	Pass	
High channel	I In-Band							
5810	13	BPSK	5.46	8.46	17.0	-8.54	Pass	
5810	130	64QAM	6.39	9.39	17.0	-7.61	Pass	
High channel	High channel Band Edge							
5815	13	BPSK	-3.13	-0.13	17.0	-17.13	Pass	
5815	130	64QAM	-2.83	0.17	17.0	-16.83	Pass	

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

<sup>\*\* -</sup> Margin = Total peak power density – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC						
Remarks: EUT with 6dBi antenna assembly gain							

Table 7.1.8 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
3 MHz

METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

ANTENA ASSEMBLY GAIN 6 dBi EMISSION BANDWIDTH 10 MHz

EINISSION BANDWIDTH TO MITZ							
Frequency,	Bit Rate,			Peak power spectral	density		
MHz	MBps	Modulation	Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	Verdict
Low channel	Band Edge						
5730	6.5	BPSK	-3.67	-0.67	17.0	-17.67	Pass
5730	65	64QAM	-3.82	-0.82	17.0	-17.82	Pass
Low channel	In-Band						
5735	6.5	BPSK	7.90	10.90	17.0	-6.10	Pass
5735	65	64QAM	8.52	11.52	17.0	-5.48	Pass
Mid channel							
5775	6.5	BPSK	7.75	10.75	17.0	-6.25	Pass
5775	65	64QAM	7.70	10.70	17.0	-6.30	Pass
High channel	In-Band						
5815	6.5	BPSK	6.53	9.53	17.0	-7.47	Pass
5815	65	64QAM	7.35	10.35	17.0	-6.65	Pass
High channel	Band Edge						
5820	6.5	BPSK	-4.78	-1.78	17.0	-18.78	Pass
5820	65	64QAM	-4.56	-1.56	17.0	-18.56	Pass

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

<sup>\*\* -</sup> Margin = Total peak power density – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	FASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 6dBi antenna assembly gain				

## Table 7.1.9 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
3 MHz

METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

23.5 dBi 6 dBi EMISSION BANDWIDTH 5 MHz

Frequency,	Bit Rate,						
MHz	MBps	Modulation	tion Measured, dBm Total peak power spectral density, dBm* Limit, dBm		Limit, dBm	Margin, dB**	Verdict
Low channel	Low channel Band Edge						
5730	3.25	BPSK	8.32	11.32	17.0	-5.68	Pass
5730	32.5	64QAM	9.26	12.26	17.0	-4.74	Pass
Mid channel							
5775	3.25	BPSK	7.94	10.94	17.0	-6.06	Pass
5775	32.5	64QAM	7.47	10.47	17.0	-6.53	Pass
High channel Band Edge							
5820	3.25	BPSK	7.50	10.50	17.0	-6.50	Pass
5820	32.5	64QAM	6.93	9.93	17.0	-7.07	Pass

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

## Reference numbers of test equipment used

HL 2909	HL 2953	HL 3768	HL 3776	HL 3787		

Full description is given in Appendix A.

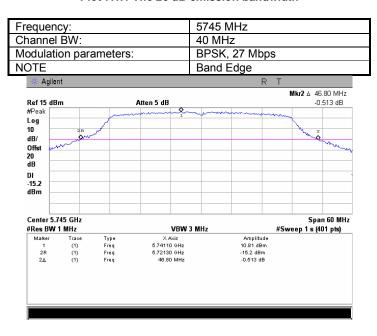
<sup>\*\* -</sup> Margin = Total peak power density – specification limit.



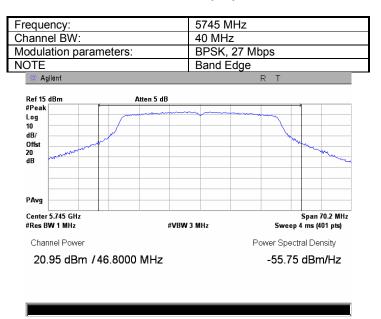


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.1 The 26 dB emission bandwidth



Plot 7.1.2 Peak output power

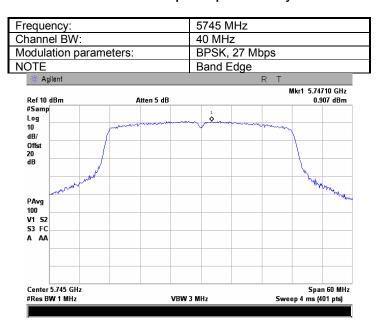




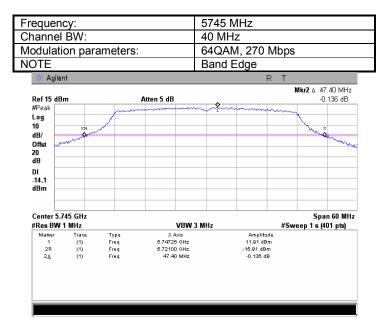


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.3 Peak spectral power density



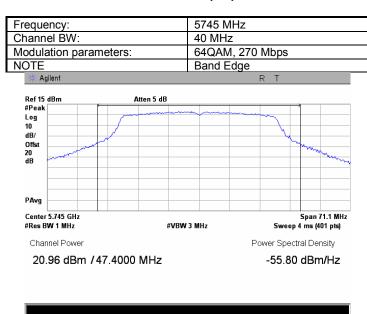
Plot 7.1.4 The 26 dB emission bandwidth





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.5 Peak output power



Plot 7.1.6 Peak spectral power density

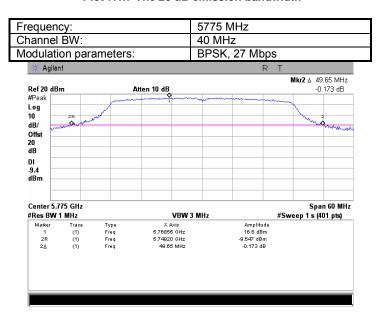
	Hz		
Ref 10 dBm Atten 5 dB  #Samp Log 10 Offst 20 dB  PAvg 100 V1 S2 S3 FC A AA	40 MHz		
Ref 10 dBm Atten 5 dB  #Samp Log 10 dB/ Offst 20 dB  PAvg 100 V1 S2 S3 FC A AA	, 270 Mbps		
Ref 10 dBm Atten 5 dB #Samp Log 10 dB/ Offst 20 dB  PAvg 100 V1 S2 S3 FC A AA			
#Samp	R T		
Log 10	Mkr1 5.74305 GHz 0.897 dBm		
10 dB/ Offst 20 dB PAvg 100 V1 SZ S3 FC A AA			
PAvg 100 V1 S2 S3 FC A AA	a manufacture and a second		
PAvg 100 V1 SZ S3 FC A AA			
PAvg 100 V1 S2 S3 FC A AA			
100 V1 S2 S3 FC A AA			
100 V1 S2 S3 FC A AA			
100 V1 S2 S3 FC A AA	A STAN WAS A STAN OF THE STAN		
V1 S2 S3 FC A AA	" advan		
S3 FC A AA			
Cantor 5.745 CM-			
Cantor 5.745 CU-			
Contex 5 745 CH2			
Contar 5 745 CU2			
#Res BW 1 MHz VBW 3 MHz	Span 60 MHz Sweep 4 ms (401 pts)		



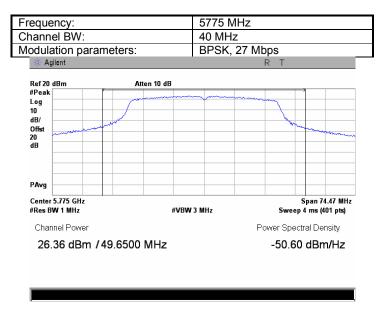


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.7 The 26 dB emission bandwidth



Plot 7.1.8 Peak output power

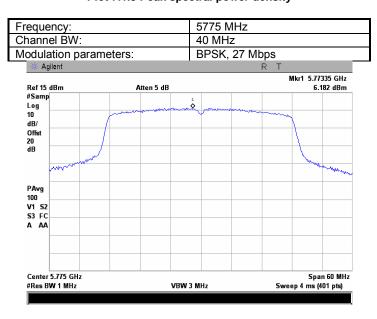




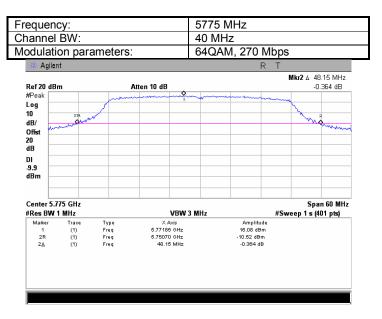


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.9 Peak spectral power density



Plot 7.1.10 The 26 dB emission bandwidth

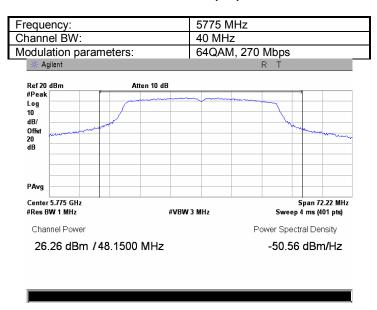




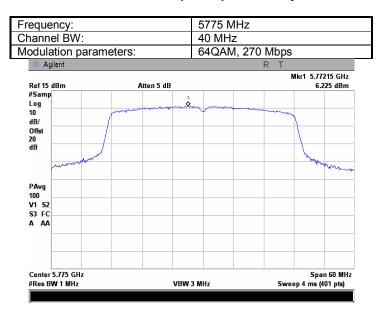


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.11 Peak output power



Plot 7.1.12 Peak spectral power density

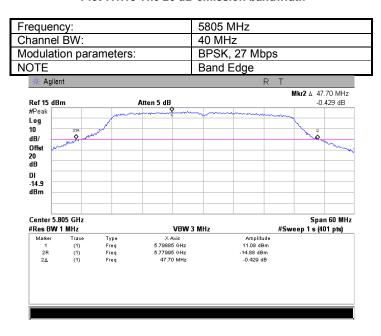




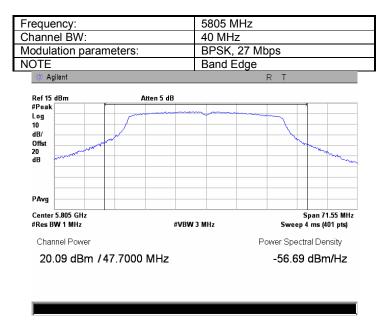


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.13 The 26 dB emission bandwidth



Plot 7.1.14 Peak output power

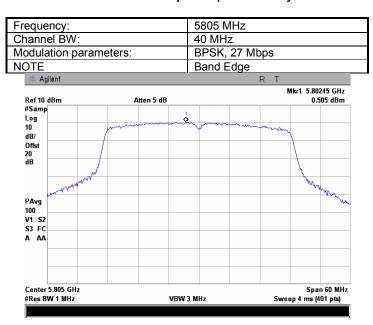






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	Verdict. PASS					
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC				
Remarks: EUT with 6dBi a	Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.15 Peak spectral power density



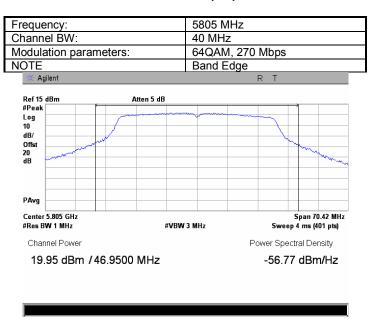
Plot 7.1.16 The 26 dB emission bandwidth

requenc	y:			5805 N	ЛHz		
Channel I	BW:			40 MH	z		
Modulatio	n par	ameters		64QAM, 270 Mbps			
NOTE	•			Band B	Edge	-	
# Agilent					R	Т	
Ref 15 dBm	ı		Atten 5 dB			Mkr2 ∆ 48 -∩	6.95 MHz .376 dB
#Peak				· • • • • • • • • • • • • • • • • • • •			
Log				- 1			
10	2R	Arrest Contract Contr				M 2	
dB/ Offst	and the same						anne de
20							700
dB							
DI							
-15.1							
dBm							
Center 5.80	5 GHz					Spa	n 60 MHz
#Res BW 1	MHz		VBW	3 MHz		#Sweep 1 s (4	01 pts)
Marker	Trace	Type	X Axis		Amplitude		
1 2R	(1) (1)	Freq Freq	5.80335 GHz 5.78115 GHz		10.92 dBm -15.46 dBm		
2≜	(1)	Freq	46.95 MHz		-0.376 dB		



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	Verdict. PASS					
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC				
Remarks: EUT with 6dBi a	Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.17 Peak output power



Plot 7.1.18 Peak spectral power density

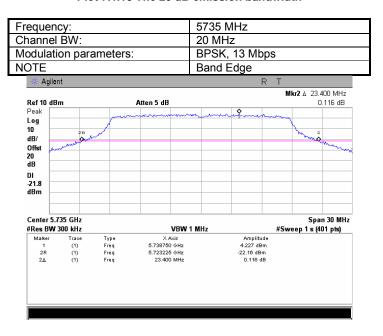
requency:		5805 MHz	
hannel BW:		40 MHz	
odulation parame	eters:	64QAM, 270 Mbp	os
OTE		Band Edge	
* Agilent		R T	
Ref 10 dBm	Atten 5 dB		Mkr1 5.79825 GHz 0.142 dBm
#Samp	1		
Log 10		mmmmm.	
dB/			<u>~</u>
Offst 20			
dB			
P.A.			The same of the sa
FAVY			And and and the same
100 V1 S2			
S3 FC			
A AA			
Center 5.805 GHz #Res BW 1 MHz	VBW 3	I MHz Sv	Span 60 MHz weep 4 ms (401 pts)



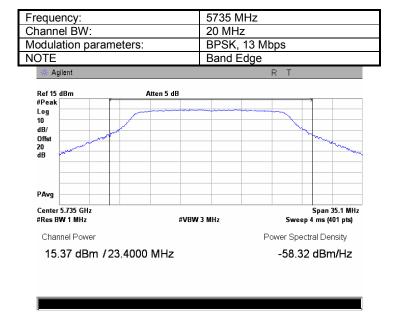


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	Verdict. PASS					
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC				
Remarks: EUT with 6dBi a	Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.19 The 26 dB emission bandwidth



Plot 7.1.20 Peak output power

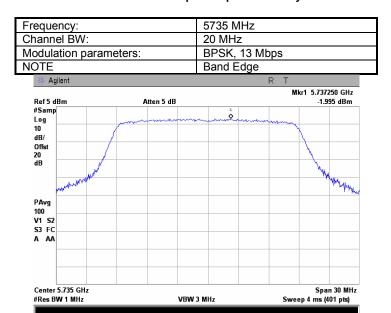






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	Verdict. PASS					
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC				
Remarks: EUT with 6dBi a	Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.21 Peak spectral power density



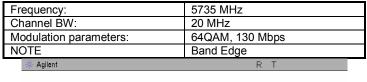
Plot 7.1.22 The 26 dB emission bandwidth

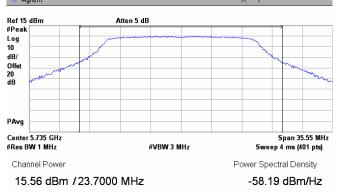
equenc	cy:			5735 MHz		
nannel				20 MHz	•	
odulatio	on par	ameters	S:	64QAM, 130 Mbps		
OTE				Band Edge	-   -	
* Agilen	ť			R	T	
					Mkr2 ∆ 23.700 MHz	
Ref 10 dBr	n		Atten 5 dB		-1.603 dB	
Peak						
Log						
10	2R				<u> </u>	
dB/	Q/"	w			Market Land	
Offst	Married Marrie				- wall	
20						
dB						
DI						
-21.5						
dBm —						
_						
Center 5.7	35 CH2				Span 30 MHz	
#Res BW 3			VRW	1 MHz	#Sweep 1 s (401 pts)	
Marker	Trace	Type	X Axis	Amplitude		
1	(1)	Freq	5.731625 GHz	4.473 dBm		
2R	(1)	Freq Freq	5.723375 GHz 23.700 MHz	-23.43 dBm		
2A	(1)			-1.603 dB		



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	Verdict. PASS					
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC				
Remarks: EUT with 6dBi a	Remarks: EUT with 6dBi antenna assembly gain						

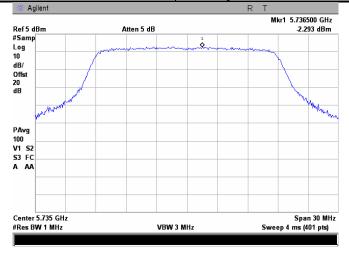
Plot 7.1.23 Peak output power





Plot 7.1.24 Peak spectral power density

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge

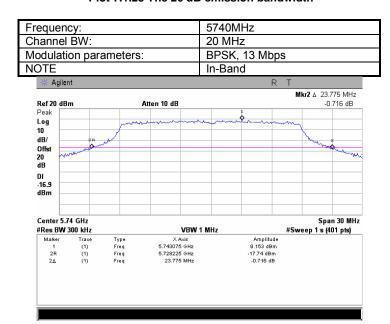






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	Verdict. PASS					
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC				
Remarks: EUT with 6dBi a	Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.25 The 26 dB emission bandwidth



Plot 7.1.26 Peak output power

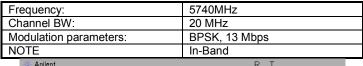
odulation p					BPSK, 13 Mbps In-Band				
* Agilent							R T		
Ref 20 dBm #Peak	, F	Att	en 10 dB					<del>-  </del>	
Log 10 dB/							1		
Offst 20 dB									and water of
PAvg									
Center 5.74 GHz #Res BW 1 MHz			#	# <b>VBW</b> 3	MHz		Swe		ın 35.66 MHz ıs (401 pts)
Channel Pow	er					P	ower Spe	ectral	Density
23.55 dB	m /23	.7750	MHz				-50.2	22 d	Bm/Hz

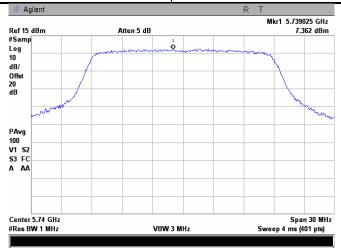




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	38, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	Verdict. PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 6dBi a	antenna assembly gain					

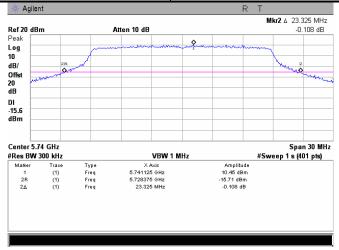
Plot 7.1.27 Peak spectral power density





Plot 7.1.28 The 26 dB emission bandwidth

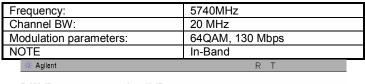
Frequency:	5740MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

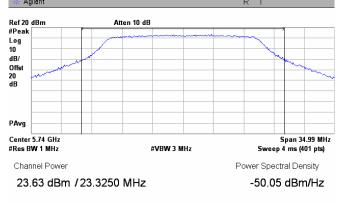




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 % Power Supply: 120 VAC			
Remarks: EUT with 6dBi antenna assembly gain					

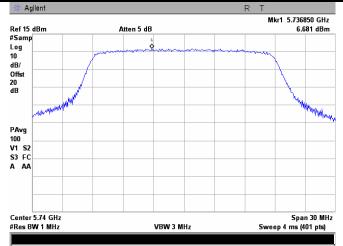
Plot 7.1.29 Peak output power





Plot 7.1.30 Peak spectral power density

Frequency:	5740MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

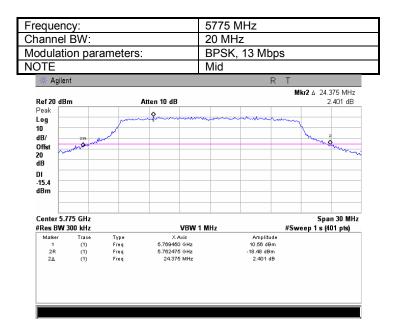






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	Verdict. PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 % Power Supply: 120 VAC			
Remarks: EUT with 6dBi antenna assembly gain					

Plot 7.1.31 The 26 dB emission bandwidth



Plot 7.1.32 Peak output power

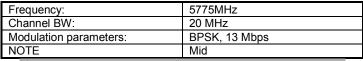
	5775MHz	
	20 MHz	
rameters:	BPSK, 13 Mbps	
	Mid	
	R T	
Atten 10 dB		
		War w
#VBW	3 MHz Swee	Span 36.56 MHz p 4 ms (401 pts)
	Power Spe	ctral Density
/24.3750 MHz	-51.0	2 dBm/Hz
	Atten 10 dB	20 MHz ameters: BPSK, 13 Mbps Mid  R T  Atten 10 dB  #VBW 3 MHz Swee Power Spe

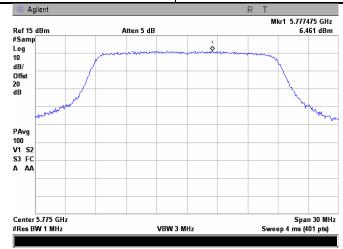




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	Verdict. PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 % Power Supply: 120 VAC			
Remarks: EUT with 6dBi antenna assembly gain					

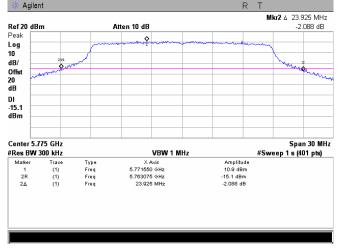
Plot 7.1.33 Peak spectral power density





Plot 7.1.34 The 26 dB emission bandwidth

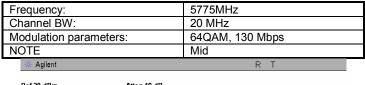
Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Mid

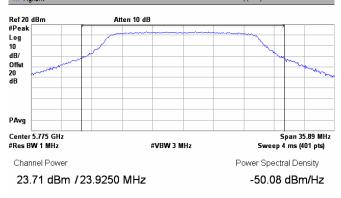




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 % Power Supply: 120 VAC			
Remarks: EUT with 6dBi antenna assembly gain					

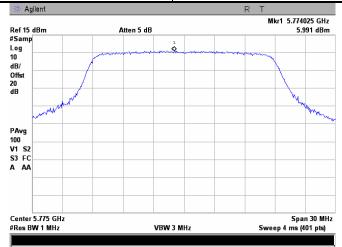
Plot 7.1.35 Peak output power





Plot 7.1.36 Peak spectral power density

Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Mid

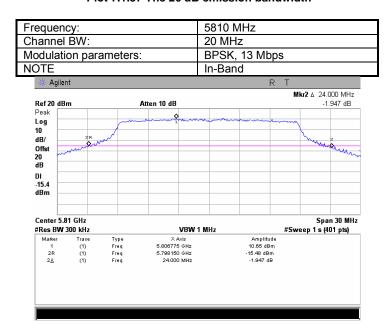






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	Verdict. PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 % Power Supply: 120 VAC			
Remarks: EUT with 6dBi antenna assembly gain					

Plot 7.1.37 The 26 dB emission bandwidth



Plot 7.1.38 Peak output power

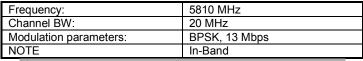
Frequency:		5810 MHz		
Channel BW:		20 MHz		
Modulation parameter	S:	BPSK, 13 M	bps	
NOTE		In-Band		
★ Agilent			RT	
Ref 20 dBm	Atten 10 dB			
#Peak				
Log 10	~		$\rightarrow$	
dB/			-	90.
Offst 20				Markey Markey
dB				-
PAvg				
Center 5.81 GHz #Res BW 1 MHz	#VBW	3 MHz	Sweep	Span 36 MHz 4 ms (401 pts)
Channel Power		F	ower Specti	ral Density
22.71 dBm /24.00	00 MHz		-51.09	dBm/Hz

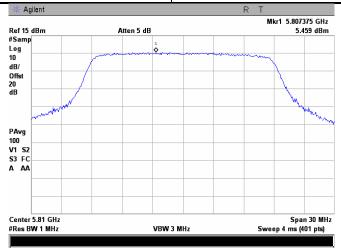




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	Verdict. PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 % Power Supply: 120 VAC			
Remarks: EUT with 6dBi antenna assembly gain					

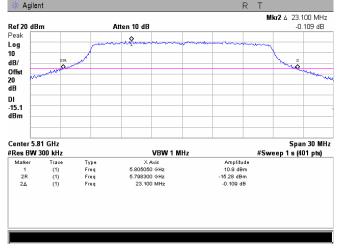
Plot 7.1.39 Peak spectral power density





Plot 7.1.40 The 26 dB emission bandwidth

Frequency:	5810 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

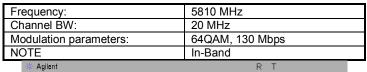


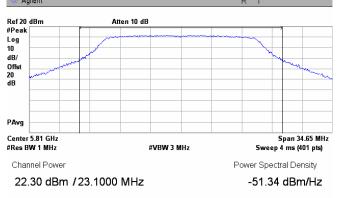
Report ID: RDWRAD\_FCC.20597\_rev1.doc Date of Issue: April 2010



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section 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:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 6dBi antenna assembly gain				

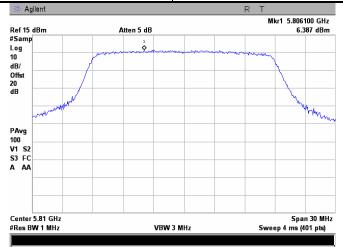
Plot 7.1.41 Peak output power





Plot 7.1.42 Peak spectral power density

Frequency:	5810 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

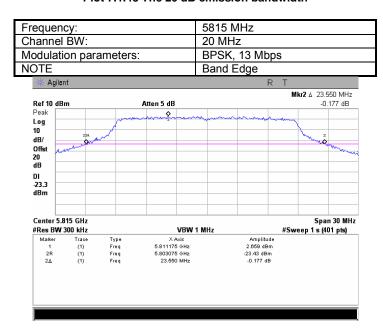






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.43 The 26 dB emission bandwidth



Plot 7.1.44 Peak output power

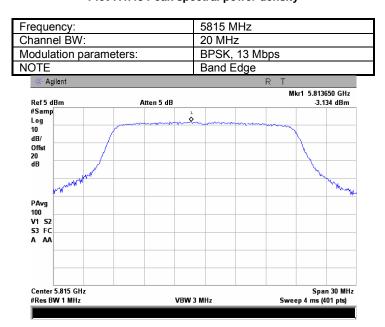
equency: nannel BW:		20 MHz	
odulation parar	neters:	BPSK, 13 Mbps	
OTE		Band Edge	
* Agilent		R T	
Ref 15 dBm	Atten 5 dB		
#Peak			
Log 10			
dB/	Variable Control of the Control of t		
Offst 20		The Workson	
dB www			
PAvg			
Center 5.815 GHz #Res BW 1 MHz	#VBW	Span 35.33 MHz / 3 MHz Sweep 4 ms (401 pts)	
Channel Power		Power Spectral Density	
14.68 dBm /	23.5500 MHz	-59.04 dBm/Hz	





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-21	38, Appendix A		
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.45 Peak spectral power density



Plot 7.1.46 The 26 dB emission bandwidth

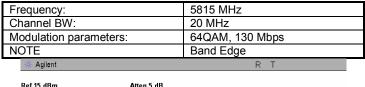
equen	cy:			5815 MHz	
nannel	BW:	·		20 MHz	
odulati	on par	ameters	3:	64QAM, 130 Mbps	
OTE				Band Edge	
# Agiler	nt				R T
D 540 ID			A F 10		Mkr2 ∆ 23.775 MHz
Ref 10 dB	m		Atten 5 dB		-1.144 dB
Log			~~~ <del>\</del>		Manual Comment
10 -	2R				<del>                                     </del>
dB/		A CONTRACTOR OF THE PARTY OF TH			2
Offst 20	and the same				2
dB					
DI 🗀					
-23.5					
dBm					
Center 5.8	15 GHz				Span 30 MH
#Res BW :				/ 1 MHz	#Sweep 1 s (401 pts)
Marker 1	Trace (1)	Type Freg	X Axis 5.810200 GHz	Ampli 2.461 (	
2R	(1)	Freq	5.803000 GHz	-24.06 d	IBm
2A	(1)	Freq	23.775 MHz	-1.144	dB

Report ID: RDWRAD\_FCC.20597\_rev1.doc Date of Issue: April 2010



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section 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:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 6dBi antenna assembly gain				

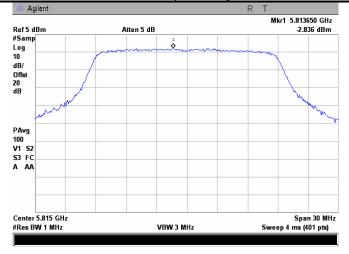
Plot 7.1.47 Peak output power





Plot 7.1.48 Peak spectral power density

Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge

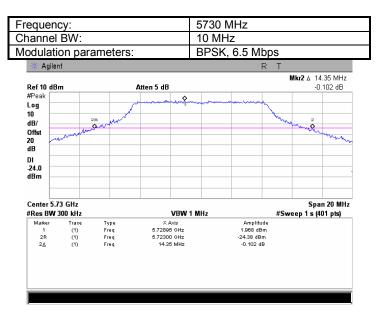




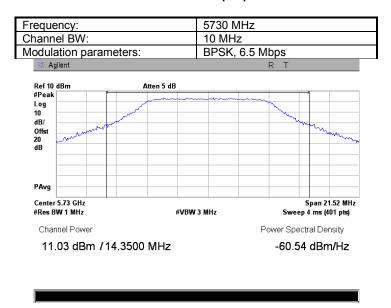


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.49 The 26 dB emission bandwidth



Plot 7.1.50 Peak output power

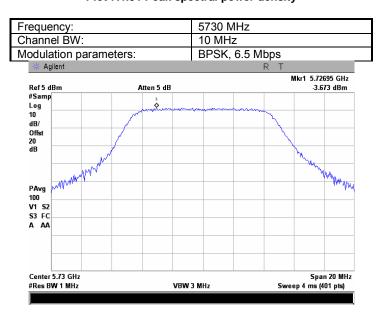




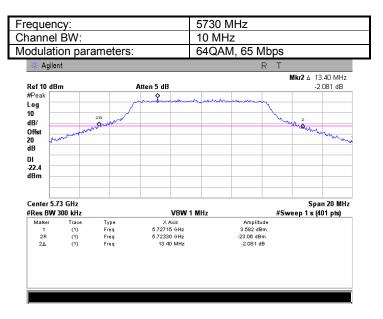


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.51 Peak spectral power density



Plot 7.1.52 The 26 dB emission bandwidth

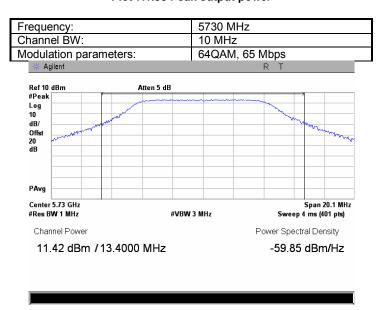




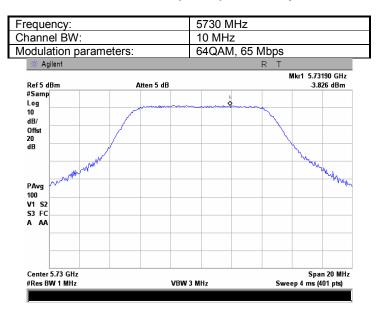


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.53 Peak output power



Plot 7.1.54 Peak spectral power density

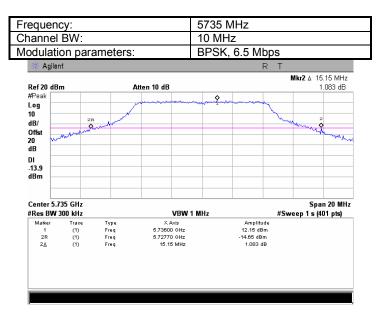




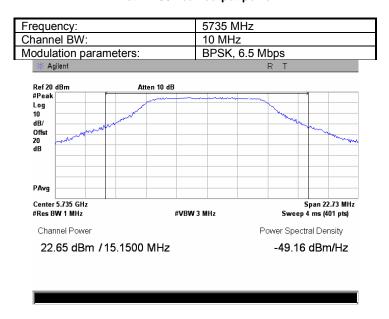


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	FASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 6dBi antenna assembly gain				

Plot 7.1.55 The 26 dB emission bandwidth



Plot 7.1.56 Peak output power

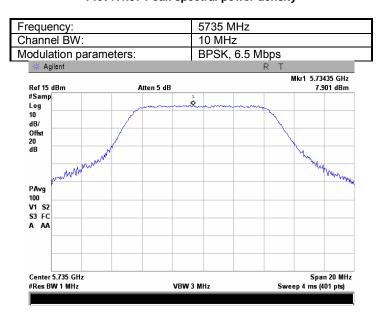




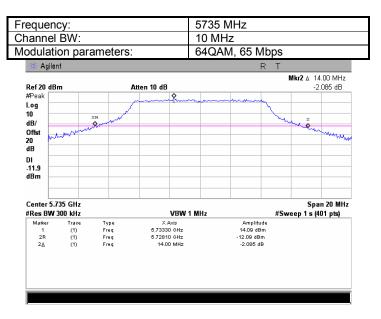


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	- Verdict: PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 6dBi antenna assembly gain					

Plot 7.1.57 Peak spectral power density



Plot 7.1.58 The 26 dB emission bandwidth

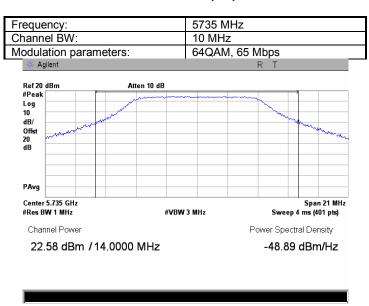




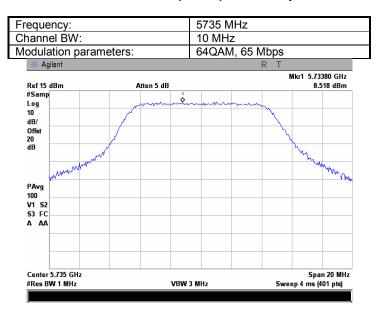


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	verdict: PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 6dBi antenna assembly gain					

Plot 7.1.59 Peak output power



Plot 7.1.60 Peak spectral power density

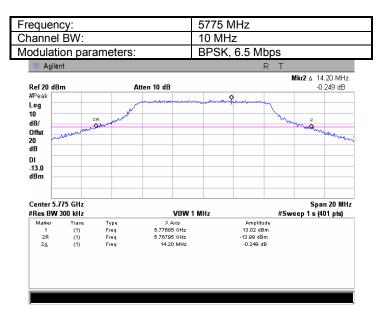




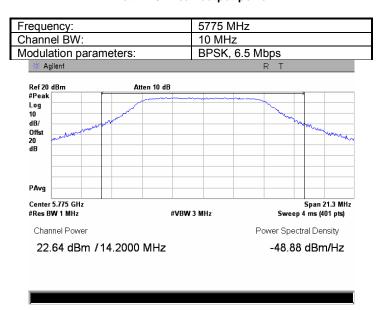


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	- Verdict: PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 6dBi antenna assembly gain					

Plot 7.1.61 The 26 dB emission bandwidth



Plot 7.1.62 Peak output power

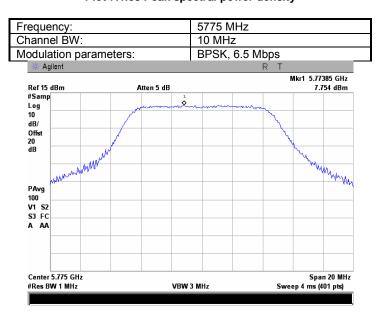




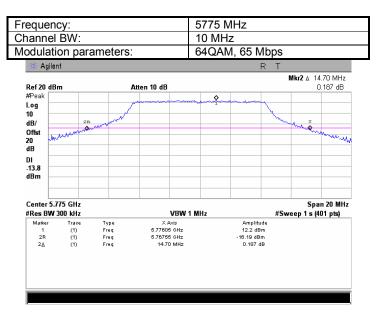


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	- Verdict: PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 6dBi antenna assembly gain					

Plot 7.1.63 Peak spectral power density



Plot 7.1.64 The 26 dB emission bandwidth

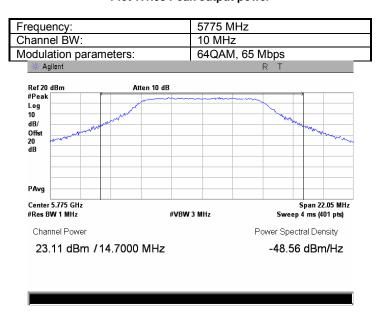




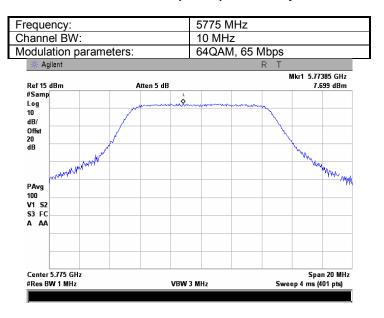


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	- verdict: PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 6dBi antenna assembly gain					

Plot 7.1.65 Peak output power



Plot 7.1.66 Peak spectral power density

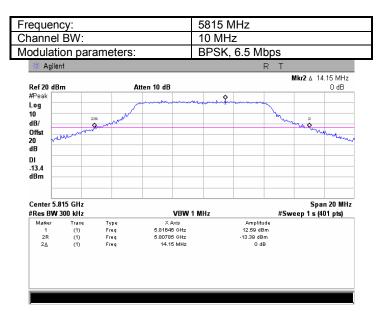




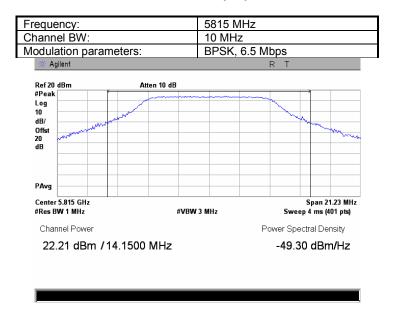


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	- Verdict: PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 6dBi antenna assembly gain					

Plot 7.1.67 The 26 dB emission bandwidth



Plot 7.1.68 Peak output power







Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	- Verdict: PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 6dBi antenna assembly gain					

Plot 7.1.69 Peak spectral power density

Frequency:			5815 N	1U-7		
Channel BV	Channel BW: 10 MHz		Z			
Modulation	Modulation parameters: BPSK, 6.5 Mbps					
* Agilent			•	RT		
Ref 15 dBm	,	Atten 5 dB			Mkr1 5.813 6.5	380 GHz 525 dBm
#Samp		1				
Log		◆		man		
10 dB/						
Offst 20	/					
dB					NW.	
J.W.	MMM. Market				, W	Whareha
PAvg						MARIN
100						
V1 S2						
S3 FC						
A AA						

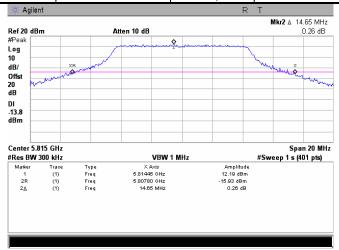
Plot 7.1.70 The 26 dB emission bandwidth

VBW 3 MHz

Span 20 MHz Sweep 4 ms (401 pts)

Center 5.815 GHz #Res BW 1 MHz

Frequency:	5815 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps

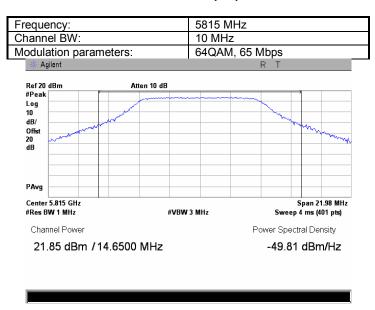




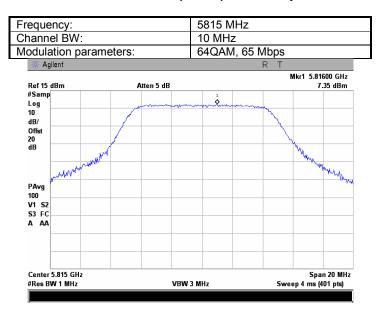


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	- Verdict: PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 6dBi antenna assembly gain					

Plot 7.1.71 Peak output power



Plot 7.1.72 Peak spectral power density

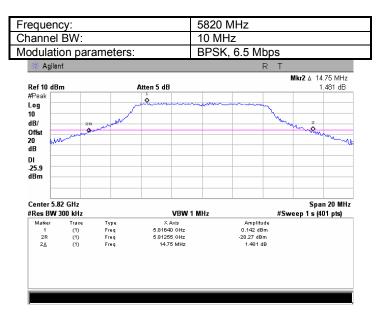




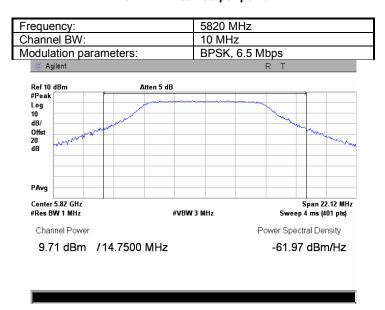


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	Verdict: PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 6dBi antenna assembly gain					

Plot 7.1.73 The 26 dB emission bandwidth



Plot 7.1.74 Peak output power

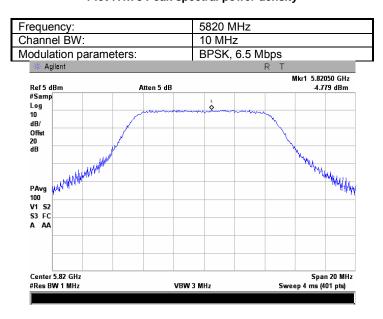




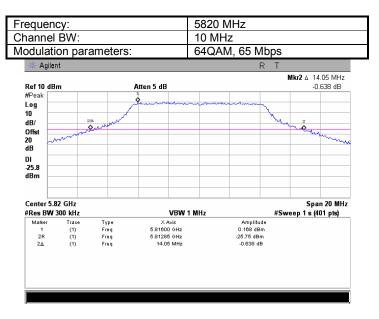


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	- Verdict: PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 6dBi antenna assembly gain					

Plot 7.1.75 Peak spectral power density



Plot 7.1.76 The 26 dB emission bandwidth

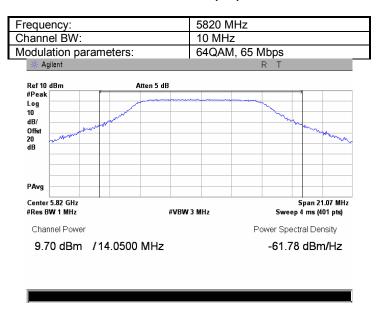




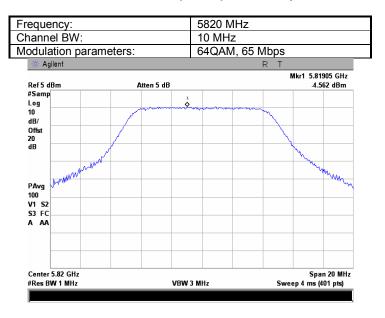


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS				
Date:	3/24/2010					
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.77 Peak output power



Plot 7.1.78 Peak spectral power density

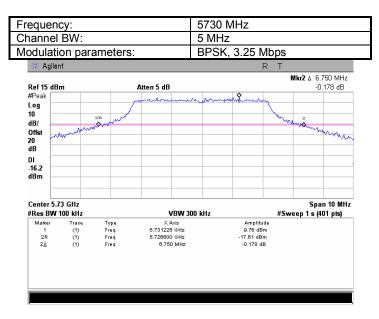




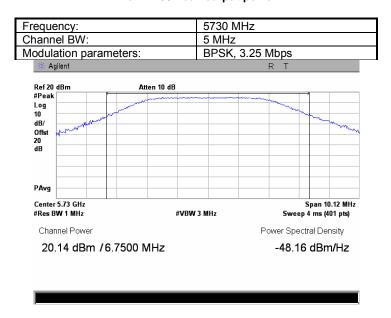


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS				
Date:	3/24/2010					
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.79 The 26 dB emission bandwidth



Plot 7.1.80 Peak output power

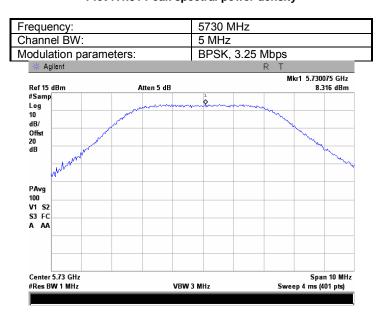




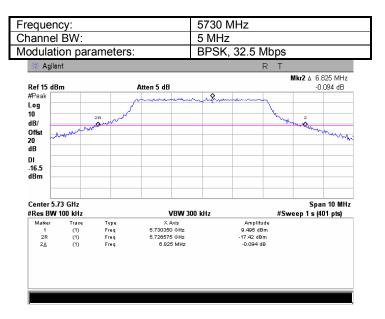


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict: PASS					
Date:	3/24/2010						
Temperature: 24 °C	Air Pressure: 1012 hPa	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 6dBi antenna assembly gain							

Plot 7.1.81 Peak spectral power density



Plot 7.1.82 The 26 dB emission bandwidth

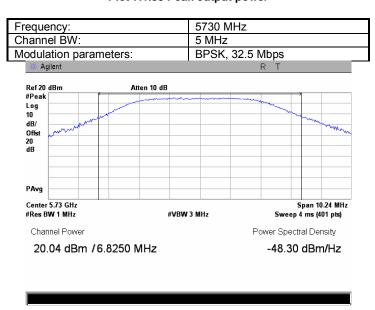




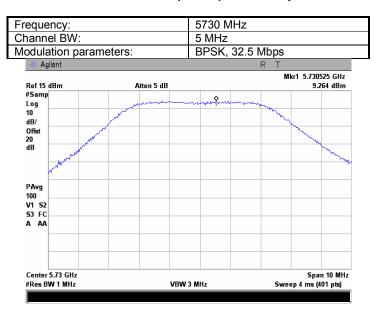


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict: PASS					
Date:	3/24/2010						
Temperature: 24 °C	Air Pressure: 1012 hPa	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 6dBi antenna assembly gain							

Plot 7.1.83 Peak output power



Plot 7.1.84 Peak spectral power density

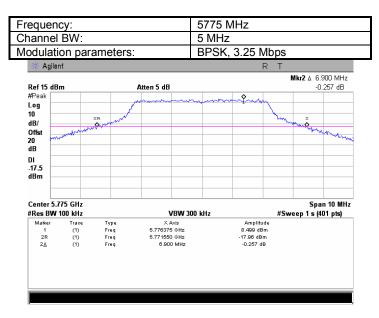




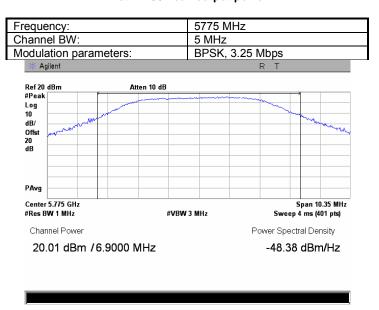


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS				
Date:	3/24/2010					
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.85 The 26 dB emission bandwidth



Plot 7.1.86 Peak output power

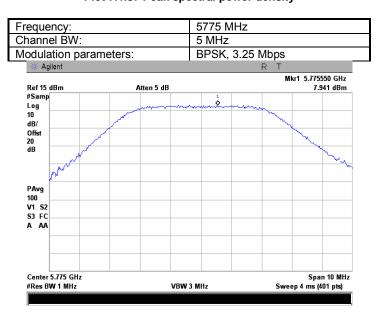




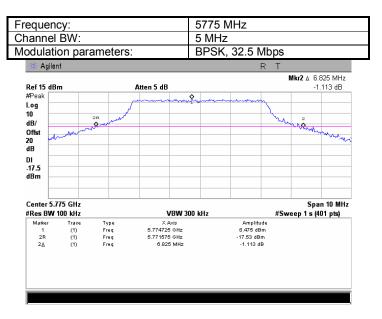


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS				
Date:	3/24/2010	verdict. PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.87 Peak spectral power density



Plot 7.1.88 The 26 dB emission bandwidth

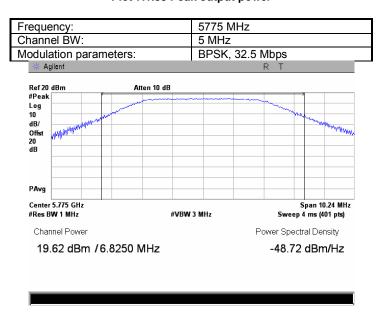




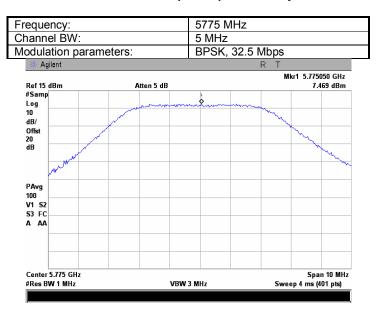


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS				
Date:	3/24/2010					
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.89 Peak output power



Plot 7.1.90 Peak spectral power density

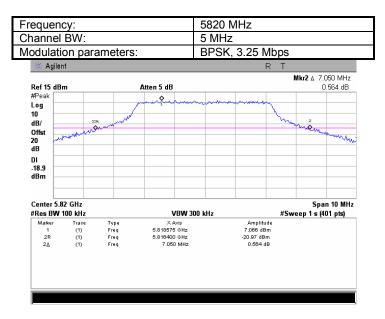




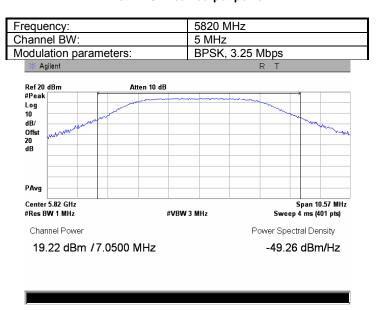


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS				
Date:	3/24/2010	verdict. PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.91 The 26 dB emission bandwidth



Plot 7.1.92 Peak output power

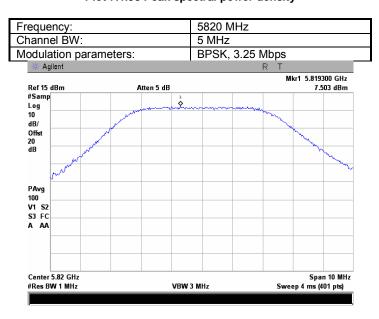




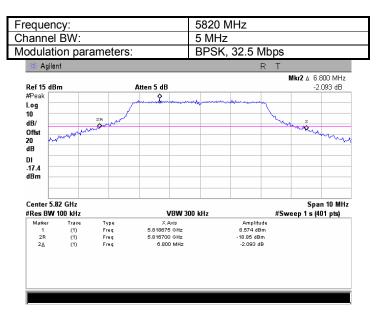


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS				
Date:	3/24/2010					
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.93 Peak spectral power density



Plot 7.1.94 The 26 dB emission bandwidth

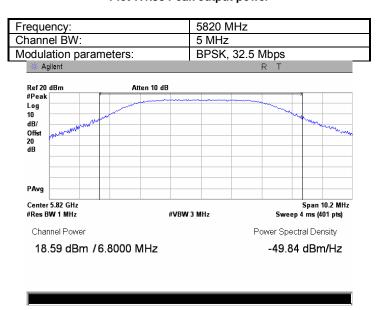




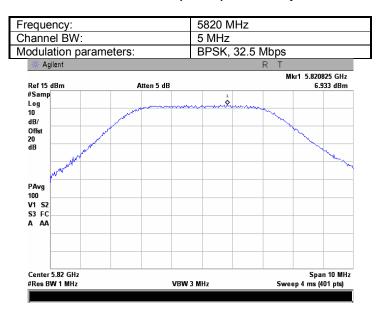


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS				
Date:	3/24/2010					
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 6dBi antenna assembly gain						

Plot 7.1.95 Peak output power



Plot 7.1.96 Peak spectral power density







Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict: PASS					
Date:	3/24/2010	verdict. PASS					
Temperature: 24 °C	Air Pressure: 1012 hPa	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC					
Remarks: EUT with 22.5 dBi antenna assembly gain							

# Table 7.1.10 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:

OFDM
Peak
1 MHz
3 MHz

METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)

ANTENNA ASSEMBLY GAIN 22.5 dBi EMISSION BANDWUIDTH 40 MHz

Frequency, 26 dB Bit Rate,		Bit Pate			Output power			
MHz Bandwidth	MBps	Modulation	Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	Verdict	
Low channel I	Band Edge							
5745.0	47.550	27	BPSK	2.12	5.12	30.00	-24.88	Pass
5745.0	47.250	270	64QAM	1.83	4.83	30.00	-25.17	Pass
Mid channel								
5775.0	47.100	27	BPSK	21.44	24.44	30.00	-5.56	Pass
5775.0	46.800	270	64QAM	21.25	24.25	30.00	-5.75	Pass
High channel	Band Edge							
5805.0	46.950	27	BPSK	1.02	4.02	30.00	-25.98	Pass
5805.0	46.800	270	64QAM	1.18	4.18	30.00	-25.82	Pass

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

<sup>\*\* -</sup> Margin = Total output power – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density							
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A						
Test mode:	Compliance	Verdict:	PASS					
Date:	3/24/2010	verdict.	PASS					
Temperature: 24 °C	Air Pressure: 1012 hPa	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC						
Remarks: EUT with 22.5 dBi antenna assembly gain								

Table 7.1.11 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:

OFDM
Peak
1 MHz
3 MHz

METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)

ANTENA ASSEMBLY GAIN 22.5 dBi EMISSION BANDWIDTH 20 MHz

LIVIIOGICIA	ANDVIDIII			20 1011 12				
Frequency,	26 dB	Bit Rate,			Output	power		
MHz	Bandwidth, MHz	MBps	Modulation	Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	Verdict
Low channel I	Band Edge							
5735	23.925	13	BPSK	-2.78	0.22	30.00	-29.78	Pass
5735	23.700	130	64QAM	-2.09	0.91	30.00	-29.09	Pass
Low channel I	n-Band							
5755	23.775	13	BPSK	23.22	26.22	30.00	-3.78	Pass
5755	24.000	130	64QAM	23.34	26.34	30.00	-3.66	Pass
Mid channel								
5775	23.700	13	BPSK	23.03	26.03	30.00	-3.97	Pass
5775	23.400	130	64QAM	23.25	26.25	30.00	-3.75	Pass
High channel	In-Band							
5795	24.300	13	BPSK	23.12	26.12	30.00	-3.88	Pass
5795	23.700	130	64QAM	23.37	26.37	30.00	-3.63	Pass
High channel	High channel Band Edge							
5815	23.100	13	BPSK	-4.08	-1.08	30.00	-31.08	Pass
5815	23.100	130	64QAM	-3.37	-0.37	30.00	-30.37	Pass

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

<sup>\*\* -</sup> Margin = Total output power – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density							
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A						
Test mode:	Compliance	Verdict:	PASS					
Date:	3/24/2010	verdict.	PASS					
Temperature: 24 °C	Air Pressure: 1012 hPa	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC						
Remarks: EUT with 22.5 dBi antenna assembly gain								

Table 7.1.12 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

OFDM MODULATING SIGNAL: **DETECTOR USED:** Peak RESOLUTION BANDWIDTH: 1 MHz VIDEO BANDWIDTH: 3 MHz

METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)

ANTENNA ASSEMBLY GAIN 22.5 dBi **EMISSION BANDWIDTH** 10 MHz

	TO WITZ								
Frequency,	26 dB	Bit Rate,			Output p	ower			
MHz	Bandwidth, MBps MHz	1 Modulation	Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	Verdict		
Low channel	Band Edge								
5735	14.400	6.5	BPSK	15.94	18.94	28.08	-9.14	Pass	
5735	13.950	65	64QAM	15.89	18.89	27.95	-9.06	Pass	
Low channel	In-Band								
5740	14.900	6.5	BPSK	22.68	25.68	28.23	-2.55	Pass	
5740	14.050	65	64QAM	23.39	26.39	27.98	-1.59	Pass	
Mid channel									
5775	14.600	6.5	BPSK	22.79	25.79	28.14	-2.35	Pass	
5775	14.250	65	64QAM	22.72	25.72	28.04	-2.32	Pass	
High channel	I In-Band								
5810	14.200	6.5	BPSK	22.24	25.24	28.02	-2.78	Pass	
5810	14.200	65	64QAM	21.92	24.92	28.02	-3.10	Pass	
High channe	High channel Band Edge								
5815	14.750	6.5	BPSK	14.57	17.57	28.19	-10.62	Pass	
5815	14.300	65	64QAM	14.50	17.50	28.05	-10.55	Pass	

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

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





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC						
Remarks: EUT with 22.5 dBi antenna assembly gain							

## Table 7.1.13 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:

OFDM
Peak
1 MHz
3 MHz

METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)

ANTENA ASSEMBLY GAIN

22.5 dBi
EMISSION BANDWIDTH

5 MHz

EIVII 3310IN BA	SION BANDWIDTH 5 MHZ							
Frequency,	26 dB	Bit Rate,			Output	oower		
MHz	Bandwidth, MHz	MBps	Modulation	Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	Verdict
Low channel	Band Edge							
5730	7.225	3.25	BPSK	12.11	15.11	25.09	-9.98	Pass
5730	7.125	32.5	64QAM	12.22	15.22	25.03	-9.81	Pass
Low channel	In-Band							
5735	7.375	3.25	BPSK	13.69	16.69	25.18	-8.49	Pass
5735	6.850	32.5	64QAM	14.23	17.23	24.86	-7.63	Pass
Mid channel		-		-				
5775	6.950	3.25	BPSK	14.12	17.12	24.92	-7.80	Pass
5775	7.000	32.5	64QAM	14.58	17.58	24.95	-7.37	Pass
High channe	I In-Band							
5815	6.800	3.25	BPSK	14.37	17.37	24.83	-7.46	Pass
5815	6.825	32.5	64QAM	13.86	16.86	24.84	-7.98	Pass
High channe	High channel Band Edge							
5820	6.900	3.25	BPSK	11.01	14.01	24.89	-10.88	Pass
5820	6.750	32.5	64QAM	10.55	13.55	24.79	-11.24	Pass

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

#### Reference numbers of test equipment used

		• •				
HL 2909	HL 2953	HL 3768	HL 3776	HL 3787		

Full description is given in Appendix A.

<sup>\*\* -</sup> Margin = Total output power – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density							
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A						
Test mode:	Compliance	Verdict:	PASS					
Date:	3/24/2010	verdict.	PASS					
Temperature: 24 °C	Air Pressure: 1012 hPa	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC						
Remarks: EUT with 22.5 dBi antenna assembly gain								

### Table 7.1.14 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
3 MHz

METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

ANTENNA ASSEMBLY GAIN 22.5 dBi EMISSION BANDWIDTH 40 MHz

LIVIIOGICIA	JANDINDII	TO WILE					
Frequency,	Bit Rate,			Peak power spectral	density		
MHz	MBps	Modulation	Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	Verdict
Low channel	Band Edge						
5745.0	27	BPSK	-18.01	-15.01	17.0	-32.01	Pass
5745.0	270	64QAM	-18.34	-15.34	17.0	-32.34	Pass
Mid channel							
5775.0	27	BPSK	1.24	4.24	17.0	-12.76	Pass
5775.0	270	64QAM	1.30	4.30	17.0	-12.70	Pass
High channel Band Edge							
5805.0	27	BPSK	-19.22	-16.22	17.0	-33.22	Pass
5805.0	270	64QAM	-19.27	-16.27	17.0	-33.27	Pass

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

<sup>\*\* -</sup> Margin = Total peak power density – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density							
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A						
Test mode:	Compliance	Verdict:	PASS					
Date:	3/24/2010	verdict.	PASS					
Temperature: 24 °C	Air Pressure: 1012 hPa	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC						
Remarks: EUT with 22.5 dBi antenna assembly gain								

### Table 7.1.15 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
3 MHz

METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

ANTENA ASSEMBLY GAIN 22.5 dBi EMISSION BANDWIDTH 20 MHz

LIVIIOOIOIVE	DANDWIDTT	ZO IVII IZ					
Frequency,	Bit Rate.			Peak power spectral	density		
MHz	MBps	Modulation	Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	Verdict
Low channel	Band Edge						
5735	13	BPSK	-20.07	-17.07	17.0	-34.07	Pass
5735	130	64QAM	-20.27	-17.27	17.0	-34.27	Pass
Low channel	In-Band						
5755	13	BPSK	5.90	8.90	17.0	-8.10	Pass
5755	130	64QAM	6.14	9.14	17.0	-7.86	Pass
Mid channel							
5775	13	BPSK	5.25	8.25	17.0	-8.75	Pass
5775	130	64QAM	5.80	8.80	17.0	-8.20	Pass
High channel	In-Band						
5795	13	BPSK	5.98	8.98	17.0	-8.02	Pass
5795	130	64QAM	5.92	8.92	17.0	-8.08	Pass
High channel	Band Edge						
5815	13	BPSK	-21.72	-18.72	17.0	-35.72	Pass
5815	130	64QAM	-20.91	-17.91	17.0	-34.91	Pass

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

<sup>\*\* -</sup> Margin = Total peak power density – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density							
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A						
Test mode:	Compliance	Verdict:	PASS					
Date:	3/24/2010	verdict.	PASS					
Temperature: 24 °C	Air Pressure: 1012 hPa	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC						
Remarks: EUT with 22.5 dBi antenna assembly gain								

Table 7.1.16 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL: OFDM
DETECTOR USED: Sample
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz

METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

ANTENA ASSEMBLY GAIN 22.5 dBi EMISSION BANDWIDTH 10 MHz

EIVIIOSION	SKINDWIDTI			IO MINZ			
Frequency,	Bit Rate, MBps	Modulation	Peak power spectral density				
MHz			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	Verdict
Low channel	Band Edge						
5735	6.5	BPSK	0.55	3.55	17.0	-13.45	Pass
5735	65	64QAM	1.31	4.31	17.0	-12.69	Pass
Low channel	In-Band						
5740	6.5	BPSK	7.91	10.91	17.0	-6.09	Pass
5740	65	64QAM	8.49	11.49	17.0	-5.51	Pass
Mid channel							
5775	6.5	BPSK	7.27	10.27	17.0	-6.73	Pass
5775	65	64QAM	7.60	10.60	17.0	-6.40	Pass
High channel	I In-Band						
5810	6.5	BPSK	7.82	10.82	17.0	-6.18	Pass
5810	65	64QAM	7.49	10.49	17.0	-6.51	Pass
High channel	Band Edge						
5815	6.5	BPSK	-0.07	2.93	17.0	-14.07	Pass
5815	65	64QAM	0.02	3.02	17.0	-13.98	Pass

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

<sup>\*\* -</sup> Margin = Total peak power density – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

### Table 7.1.17 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL: OFDM
DETECTOR USED: Sample
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz

METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

ANTENA ASSEMBLY GAIN 22.5 dBi FMISSION BANDWIDTH 5 MHz

EINIOSION I	SANDWIDTH	1		MHZ			
Frequency,	Bit Rate, MBps	Modulation	Peak power spectral density				
MHz			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	Verdict
Low channel	Band Edge						
5730	3.25	BPSK	0.00	3.00	17.0	-14.00	Pass
5730	32.5	64QAM	-0.02	2.98	17.0	-14.02	Pass
Low channel	In-Band						
5735	3.25	BPSK	3.05	6.05	17.0	-10.95	Pass
5735	32.5	64QAM	3.30	6.30	17.0	-10.70	Pass
Mid channel							
5775	3.25	BPSK	3.14	6.14	17.0	-10.86	Pass
5775	32.5	64QAM	2.88	5.88	17.0	-11.12	Pass
High channe	I In-Band						
5815	3.25	BPSK	2.67	5.67	17.0	-11.33	Pass
5815	32.5	64QAM	2.72	5.72	17.0	-11.28	Pass
High channe	Band Edge						
5820	3.25	BPSK	-0.75	2.25	17.0	-14.75	Pass
5820	32.5	64QAM	-0.20	2.80	17.0	-14.20	Pass

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

### Reference numbers of test equipment used

HL 2909 HL 2953 HL 3768 HL 3776 HL 3787	
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Full description is given in Appendix A.

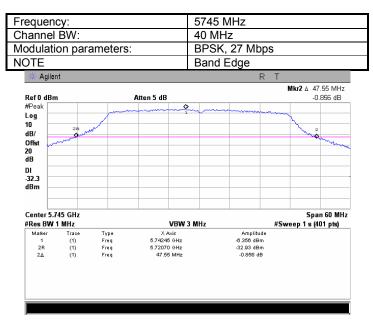
<sup>\*\* -</sup> Margin = Total peak power density – specification limit.



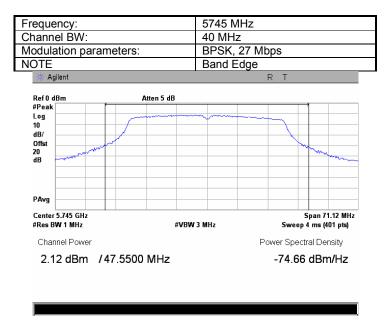


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.97 The 26 dB emission bandwidth



Plot 7.1.98 Peak output power

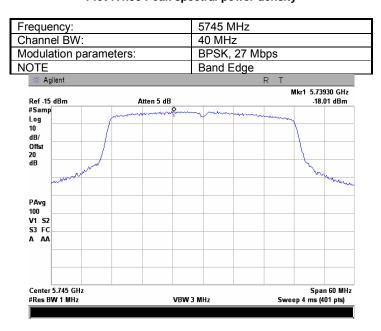






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.99 Peak spectral power density



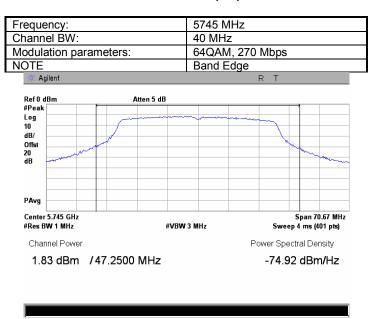
Plot 7.1.100 The 26 dB emission bandwidth

OTE			Band E		-	
* Agilent				R T	T Mkr2 ∆ 47.	25 MHz
Ref 0 dBm		Atten 5 dB			0.	.656 dB
#Peak						
Log 10	1					
dB/	1				My 2	
dB/ Offst					, A	Mary Mary
20						
dB						
DI						
-31.4						
dBm						
Center 5.745 GHz	1				Spar	n 60 MHz
#Res BW 1 MHz		VBW 3	3 MHz	#	#Sweep 1 s (40	
Marker Trace	Туре	X Axis		Amplitude		. ,
1 (1) 2R (1)	Freq Freq	5.73945 GHz 5.72070 GHz		-5.404 dBm -33.52 dBm		
2R (1) 2 <u>A</u> (1)	Freq	5.72070 GHz 47.25 MHz		-33.52 dBm 0.656 dB		



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section 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:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.101 Peak output power



Plot 7.1.102 Peak spectral power density

Frequency:

5745 MHz

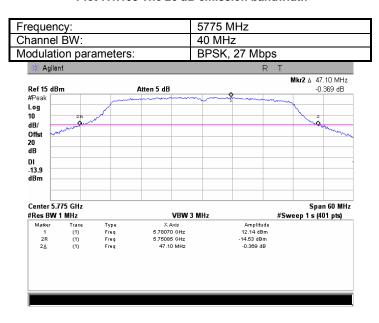
hannel BW:		40 MHz	
lodulation para	meters:	64QAM, 270 Mbps	
OTE		Band Edge	
* Agilent		RT	
Ref -15 dBm	Atten 5 dB	М	kr1 5.73915 GHz -18.34 dBm
#Samp Log 10	<b>***********</b>	and more more more and a second	
dB/ Offst 20 dB			
- Marie Marie			Mary Marian
PAvg 100			
V1 S2 S3 FC A AA			
Center 5.745 GHz #Res BW 1 MHz	VBW	3 MHz Swee	Span 60 MHz p 4 ms (401 pts)



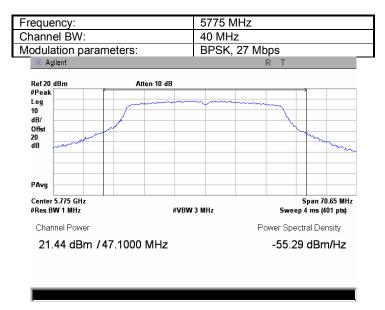


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.103 The 26 dB emission bandwidth



Plot 7.1.104 Peak output power

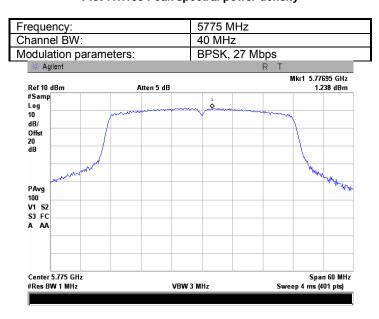




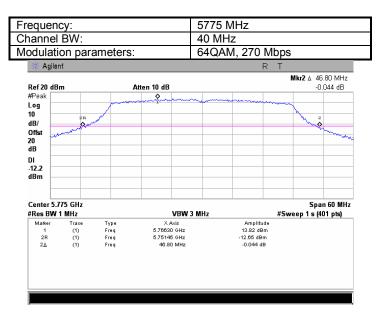


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.105 Peak spectral power density



Plot 7.1.106 The 26 dB emission bandwidth

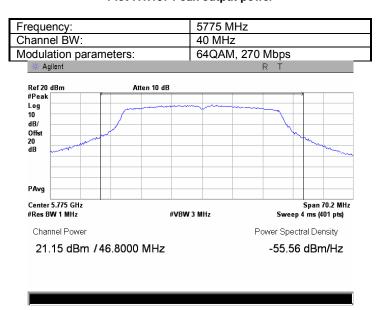




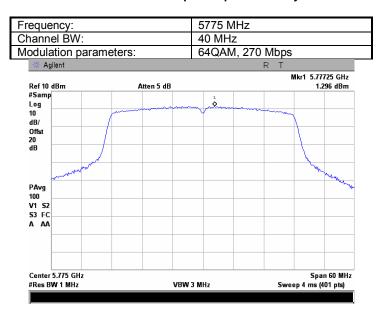


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	Verdict. PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.107 Peak output power



Plot 7.1.108 Peak spectral power density

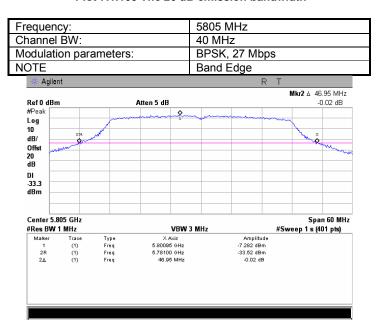




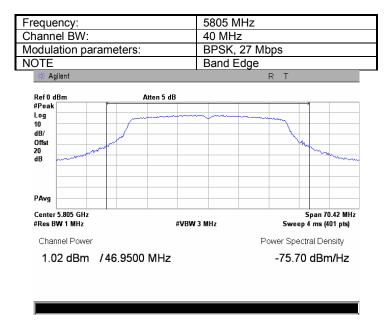


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.109 The 26 dB emission bandwidth



Plot 7.1.110 Peak output power

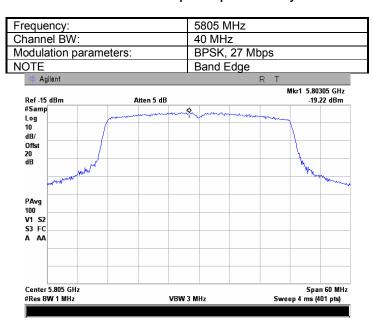






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.111 Peak spectral power density



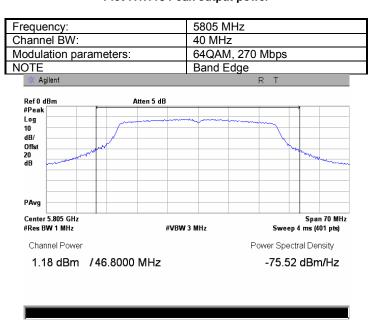
Plot 7.1.112 The 26 dB emission bandwidth

46.80 MHz -1.121 dB
2
Q Mary Mary
an 60 MHz (401 pts)
(40 i pisj



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section 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:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.113 Peak output power



Plot 7.1.114 Peak spectral power density

Frequency:

5805 MHz

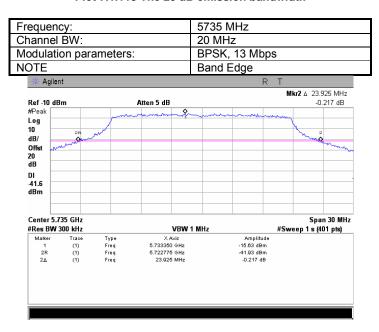
hannel BW:		40 MHz	
odulation para	ameters:	64QAM, 270 MI	ops
OTE		Band Edge	•
* Agilent		R	Т
Ref -15 dBm	Atten 5 dB		Mkr1 5.79870 GHz -19.27 dBm
#Samp Log 10		maran mark	
dB/ Offst			
20 dB			
white the same of			Mary
PAvg 100			
V1 S2 S3 FC A AA			
A AA			
Center 5.805 GHz #Res BW 1 MHz	VBW	3 MHz	Span 60 MHz Sweep 4 ms (401 pts)





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section 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:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.115 The 26 dB emission bandwidth



Plot 7.1.116 Peak output power

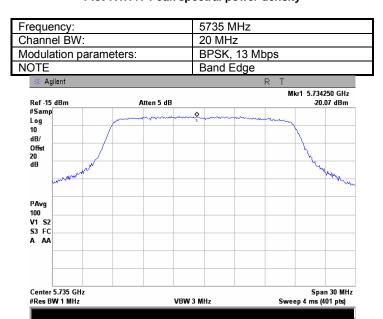
requency:		5735 M	1Hz		
Channel BW: 20 I		20 MHz	Z		
Modulation parameters: BPSK, 13 Mbps					
NOTE		Band E	Band Edge		
* Agilent			RТ		
Ref 0 dBm	Atten 5 dB				
#Peak			,		
Log 10			manufacture of the same of the		
dB/			<b>N</b> ,		
Offst 20				ma	
dB ~~~~				- Amount - m	
PAvg					
Center 5.735 GHz			S	pan 35.89 MHz	
#Res BW 1 MHz	#\	VBW 3 MHz	Sweep 4	ms (401 pts)	
Channel Power			Power Spectr	al Density	
-2.78 dBm	/23.9250 MHz		-76.57	dBm/Hz	





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section 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:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.117 Peak spectral power density



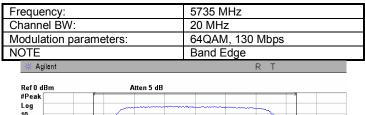
Plot 7.1.118 The 26 dB emission bandwidth

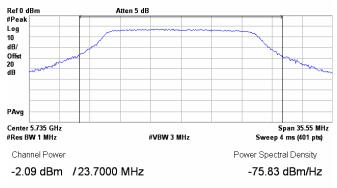
equend	cy:			5735 M	lHz		
nannel			·	20 MHz			
		rameters		64QAM, 130 Mbps			
	ori pai	arriotors.			•	,,,,,	
STE				Band E	age		
# Agilen	t				R	Т	
						Mkr2 A 23.7	
Ref -10 dB	m		Atten 5 dB			-0.	187 dB
#Peak			- warmen warmen	manne		when	
Log		/					
10	2R	Marrow Marrow				Mu 2	
dB/	ZR					Way 2	man.
Oliat F							- Carrie
20 dB							
DI -40.0							
dBm							
ubiii							
Center 5.7	35 GHz					Spar	1 30 MHz
#Res BW 3	00 kHz		VBW	1 MHz		#Sweep 1 s (40	
Marker	Trace	Type	X Axis		Amplitude		
1	(1)	Freq	5.740925 GHz		-13.98 dBm		
2R	(1) (1)	Freq Freq	5.722925 GHz 23.700 MHz		-41.72 dBm -0.187 dB		
2A		1199	20.1 00 MITE		0.101 00		



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section 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:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

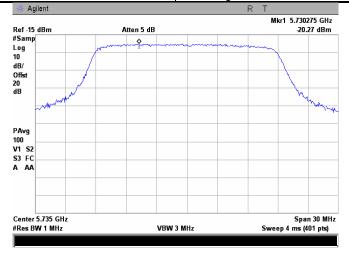
Plot 7.1.119 Peak output power





Plot 7.1.120 Peak spectral power density

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge

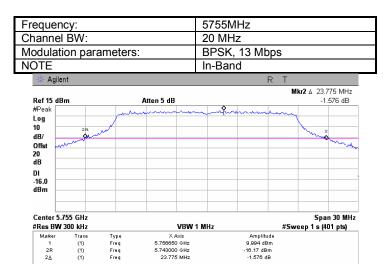






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.121 The 26 dB emission bandwidth



Plot 7.1.122 Peak output power

Frequency:		5755MHz
Channel BW:		20 MHz
Modulation pa	arameters:	BPSK, 13 Mbps
NOTE		In-Band
* Agilent		R T
	Atten 15 dB	
Ref 25 dBm #Peak	Atten 15 db	

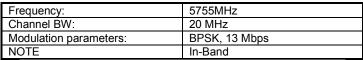


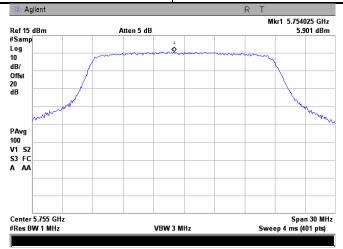




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

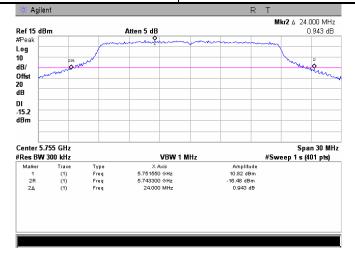
Plot 7.1.123 Peak spectral power density





Plot 7.1.124 The 26 dB emission bandwidth

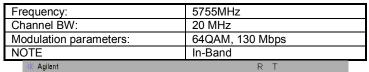
Frequency:	5755MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

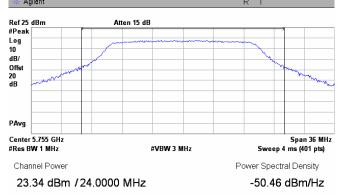




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

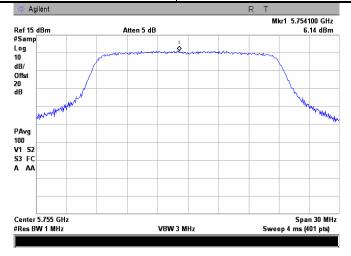
Plot 7.1.125 Peak output power





Plot 7.1.126 Peak spectral power density

Frequency:	5755MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

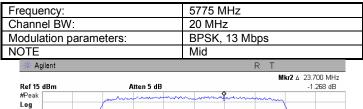


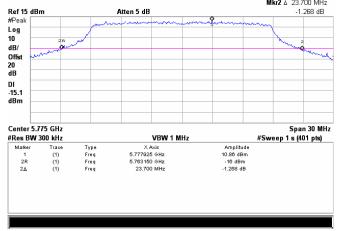




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict. PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

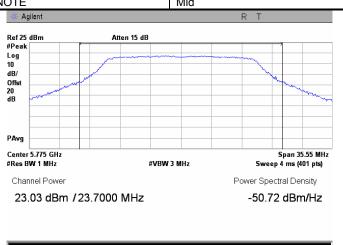
Plot 7.1.127 The 26 dB emission bandwidth





Plot 7.1.128 Peak output power

Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	Mid

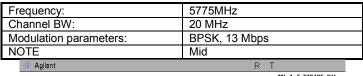


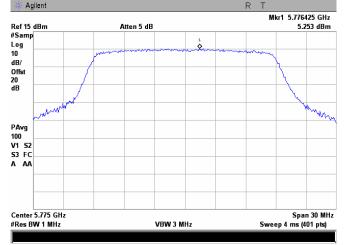




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	Verdict. PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

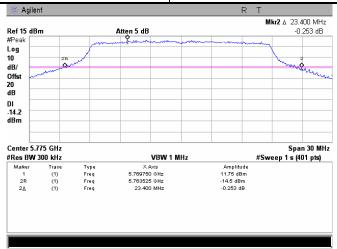
Plot 7.1.129 Peak spectral power density





Plot 7.1.130 The 26 dB emission bandwidth

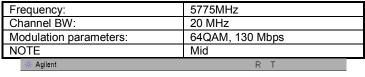
Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Mid

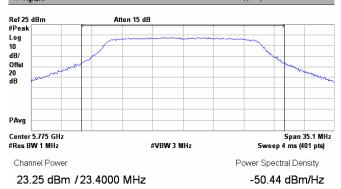




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	Verdict. PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

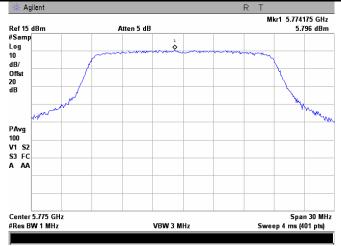
Plot 7.1.131 Peak output power





Plot 7.1.132 Peak spectral power density

Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Mid

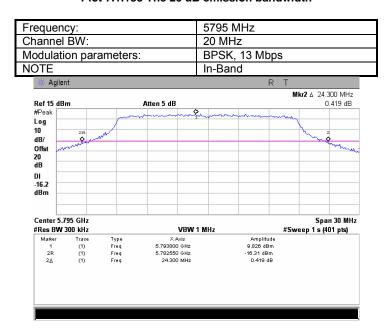






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict. PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.133 The 26 dB emission bandwidth



Plot 7.1.134 Peak output power

Frequency:

5795 MHz

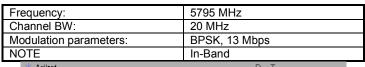
Channel BW:	20 MHz
Modulation parameters	BPSK, 13 Mbps
NOTE	In-Band
₩ Agilent	R T
Ref 25 dBm #Peak	itten 15 dB
Log 10 dB/ Offst 20 dB	
PAvg	
Center 5.795 GHz #Res BW 1 MHz	Span 36.45 MHz #VBW 3 MHz Sweep 4 ms (401 pts)
Channel Power	Power Spectral Density
23.12 dBm /24.300	) MHz -50.74 dBm/Hz

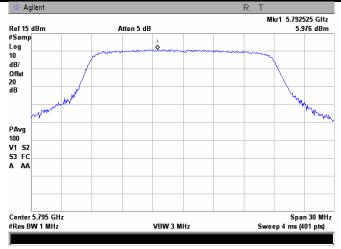




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	Verdict. PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

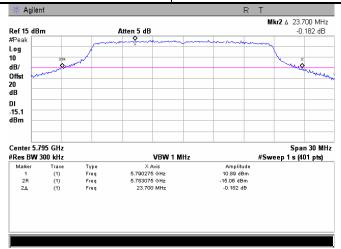
Plot 7.1.135 Peak spectral power density





Plot 7.1.136 The 26 dB emission bandwidth

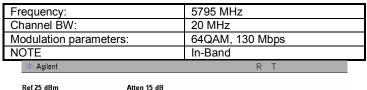
Frequency:	5795 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

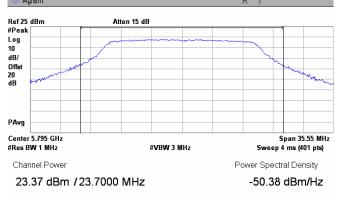




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	Verdict. PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

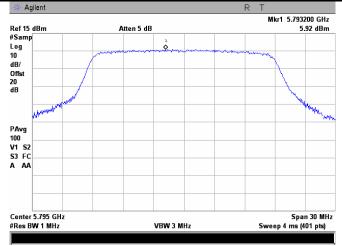
Plot 7.1.137 Peak output power





Plot 7.1.138 Peak spectral power density

Frequency:	5795 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

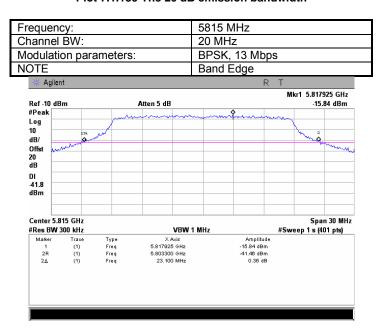






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010			
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC			
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.139 The 26 dB emission bandwidth



Plot 7.1.140 Peak output power

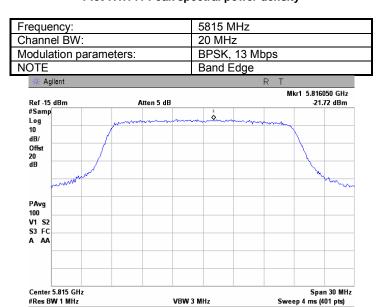
Freque	ency:		5815 MI	Hz	
Chann	el BW:		20 MHz		
Modula	ation parar	meters:	BPSK, 1	13 Mbps	
NOTE			Band Ed	ge	
₩ Ag	ilent			RT	
Ref 0 d	Bm	Atten 5 dB			
#Peak Log 10 dB/ Offst		<i>M</i>			4
20 dB	And the second				
PAvg					
	5.815 GHz W 1 MHz	#VBW	3 MHz		Span 34.65 MHz 4 ms (401 pts)
Chan	nel Power			Power Spec	tral Density
-4.0	8 dBm /	23.1000 MHz		-77.72	2 dBm/Hz





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010			
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC			
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.141 Peak spectral power density



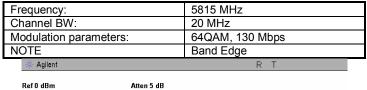
Plot 7.1.142 The 26 dB emission bandwidth

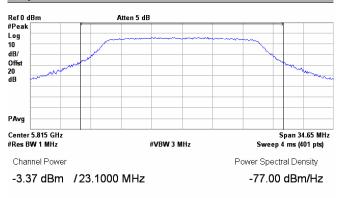
requenc	y:			5815 MHz		
Channel E				20 MHz		
<b>Nodulatio</b>	n par	rameters	:	64QAM, 130 Mbps		
NOTE				Band Edge		
# Agilent					R T	
					<b>Mkr2</b> ∆ 23.10	
Ref-10 dBn #Peak	n		Atten 5 dB		-U.L	)78 dB
Log				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	many .	
10	2R				2	
dB/	ARREAD CONTRACTOR	~~			70	mount
20						The same of the sa
dB						
DI						
41.4 dBm						
ubm						
Center 5.81						30 MHz
#Res B <b>W</b> 30				1 MHz	#Sweep 1 s (40	1 pts)
Marker 1	Trace (1)	Type Freq	X Axis 5.809600 GHz	Ampli -15.37 d		
2R	(1)	Freq	5.803300 GHz	-41.46 d	Bm	
2≜	(1)	Freq	23,100 MHz	-0.078	dB	



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC			
Remarks: EUT with 22.5 dBi antenna assembly gain				

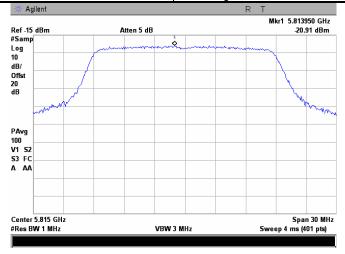
Plot 7.1.143 Peak output power





Plot 7.1.144 Peak spectral power density

Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge

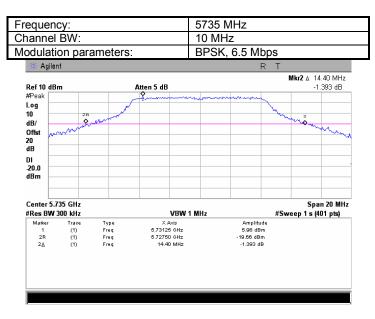




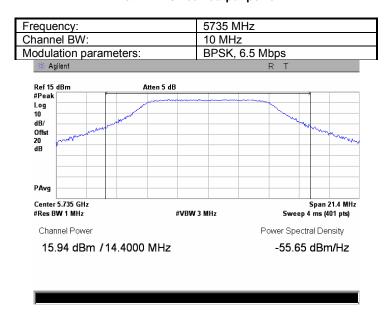


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC			
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.145 The 26 dB emission bandwidth



Plot 7.1.146 Peak output power



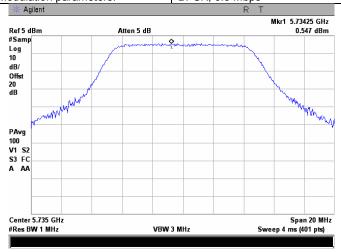




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC			
Remarks: EUT with 22.5 dBi antenna assembly gain				

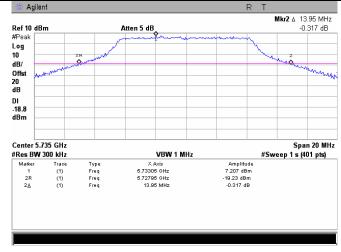
Plot 7.1.147 Peak spectral power density

Frequency:	5735 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 7.1.148 The 26 dB emission bandwidth

Frequency:	5735 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps

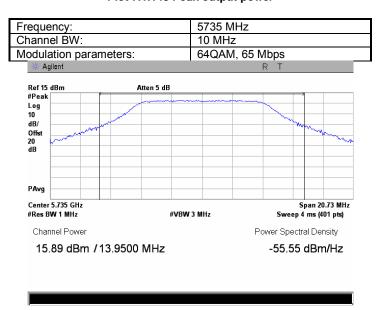




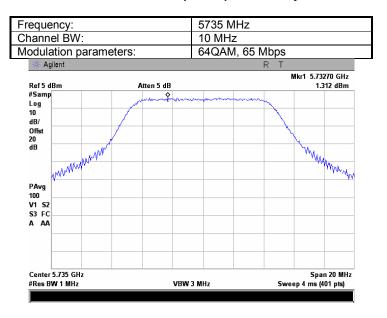


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC			
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.149 Peak output power



Plot 7.1.150 Peak spectral power density

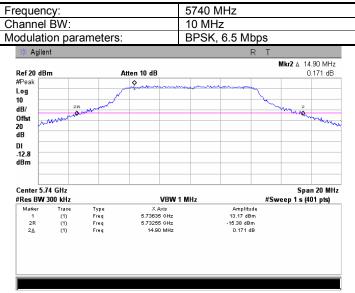




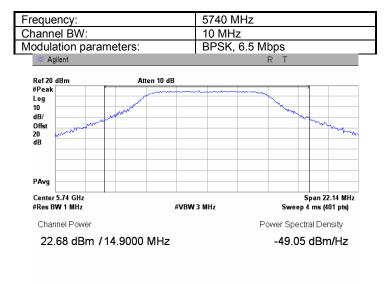


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict.	FASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.151 The 26 dB emission bandwidth



Plot 7.1.152 Peak output power

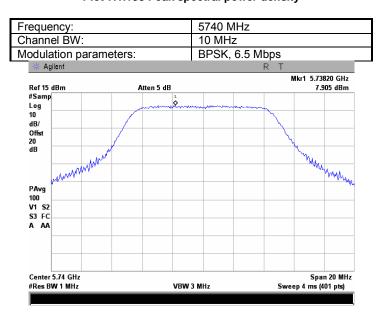




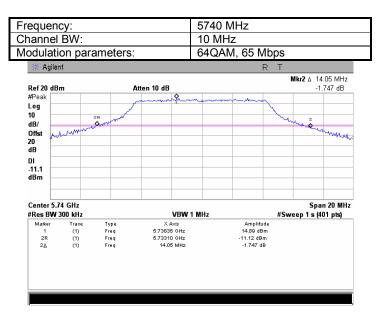


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2  Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		PASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.153 Peak spectral power density



Plot 7.1.154 The 26 dB emission bandwidth

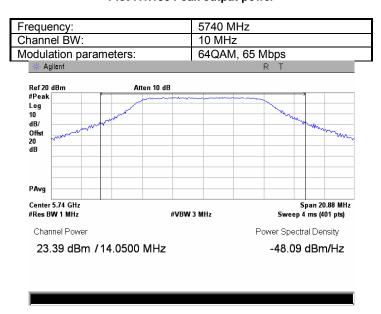




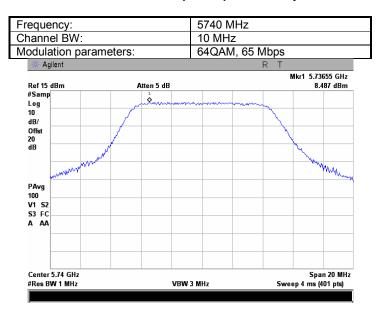


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2  Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		PASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.155 Peak output power



Plot 7.1.156 Peak spectral power density

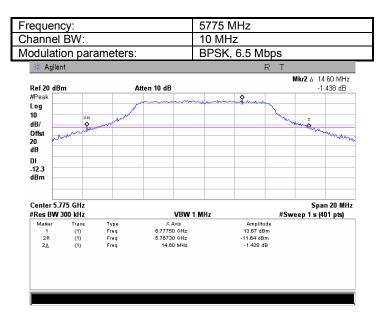




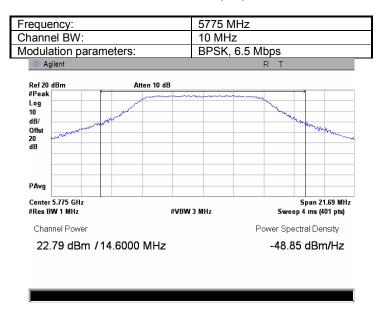


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict.	FASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.157 The 26 dB emission bandwidth



Plot 7.1.158 Peak output power

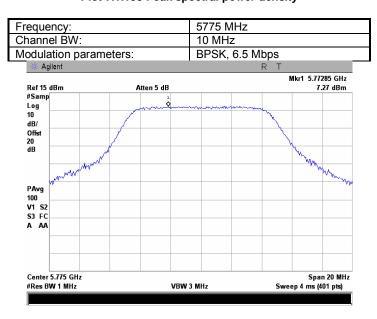




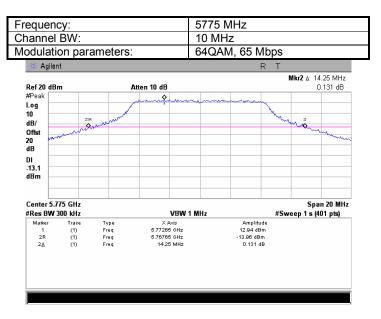


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict.	PASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.159 Peak spectral power density



Plot 7.1.160 The 26 dB emission bandwidth

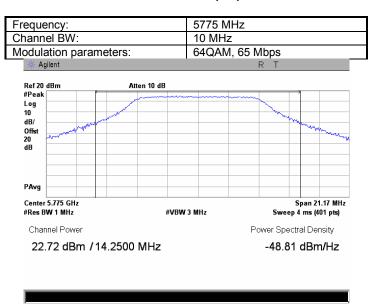




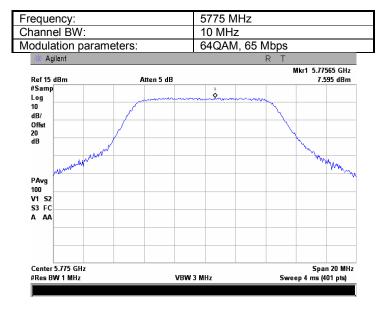


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.161 Peak output power



Plot 7.1.162 Peak spectral power density

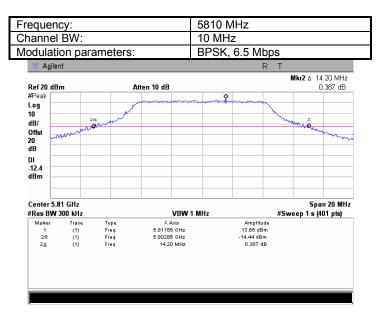




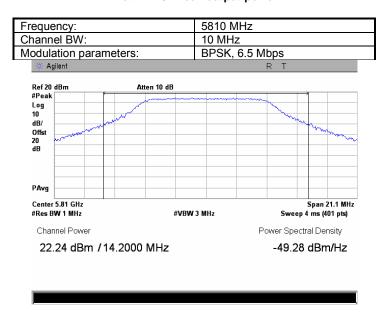


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2  Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		PASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.163 The 26 dB emission bandwidth



Plot 7.1.164 Peak output power

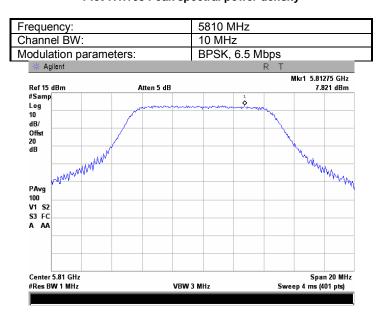




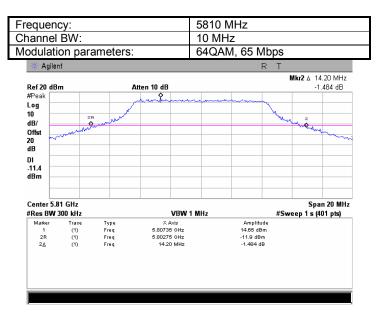


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2  Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		PASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.165 Peak spectral power density



Plot 7.1.166 The 26 dB emission bandwidth

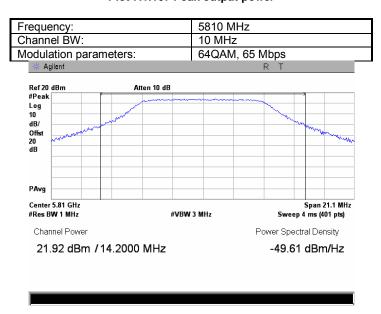




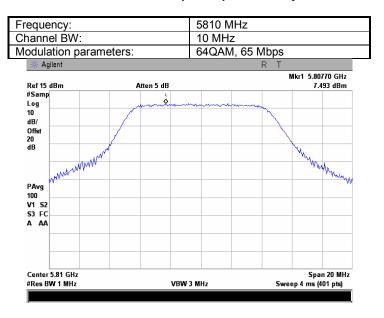


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict.	PASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.167 Peak output power



Plot 7.1.168 Peak spectral power density

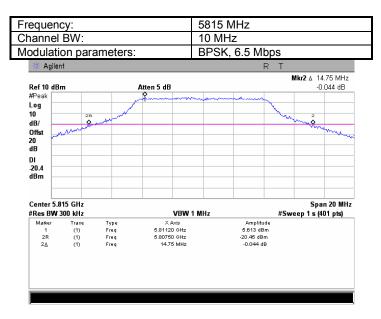




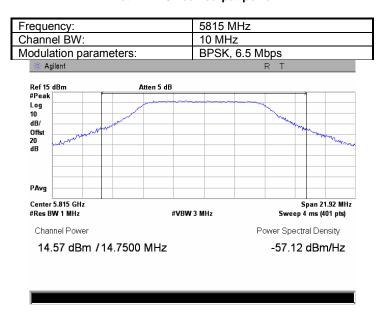


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	Verdict. PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.169 The 26 dB emission bandwidth



Plot 7.1.170 Peak output power

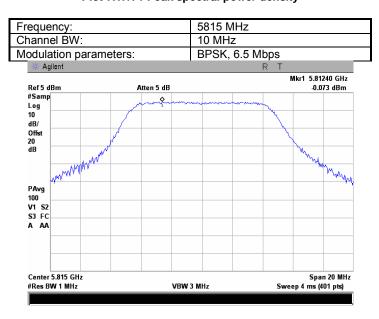




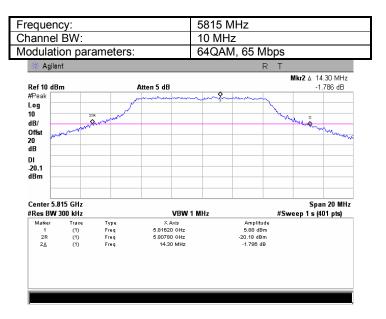


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	Verdict. PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.171 Peak spectral power density



Plot 7.1.172 The 26 dB emission bandwidth

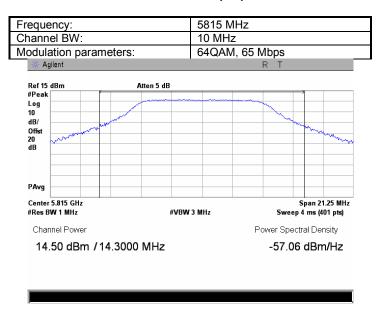




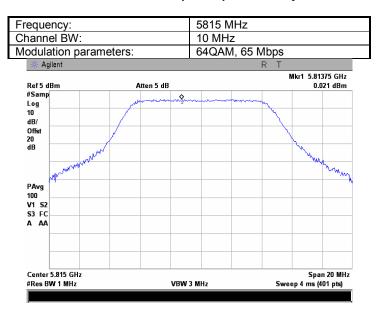


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict: PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.173 Peak output power



Plot 7.1.174 Peak spectral power density

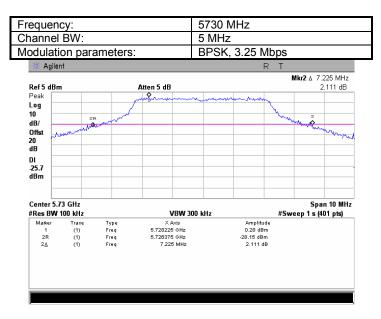




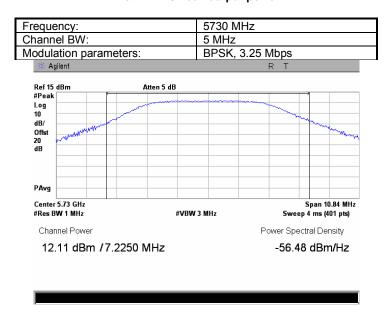


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	Verdict. PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.175 The 26 dB emission bandwidth



Plot 7.1.176 Peak output power

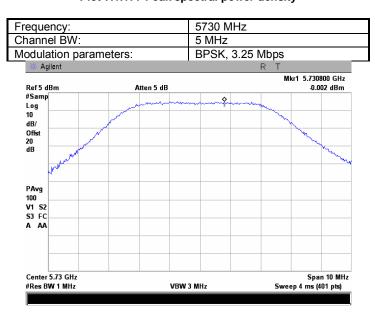




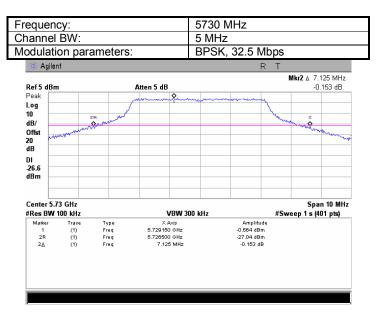


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict: PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.177 Peak spectral power density



Plot 7.1.178 The 26 dB emission bandwidth

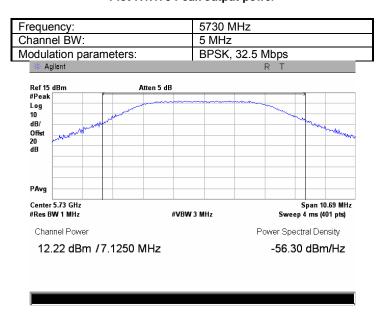




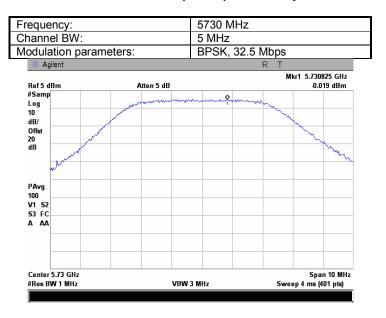


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict.	PASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.179 Peak output power



Plot 7.1.180 Peak spectral power density

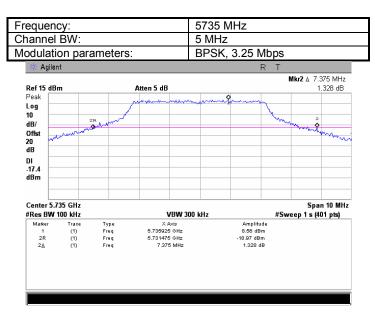




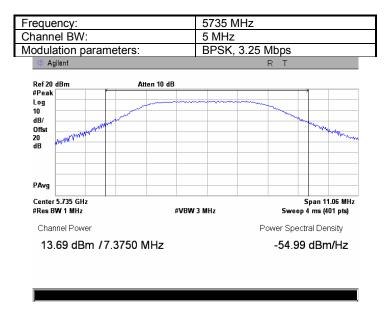


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	Verdict. PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.181 The 26 dB emission bandwidth



Plot 7.1.182 Peak output power

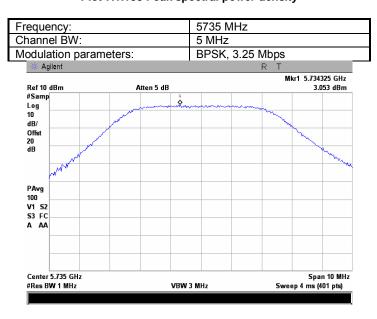




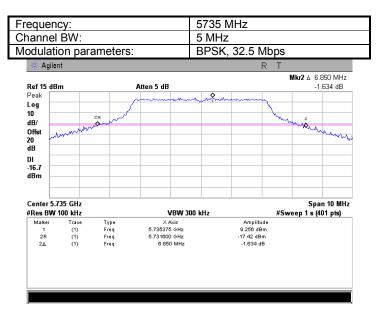


Test specification:	FCC section 15. 407(a)(1	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2		
	Peak output power and p	Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict. PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.1.183 Peak spectral power density



Plot 7.1.184 The 26 dB emission bandwidth

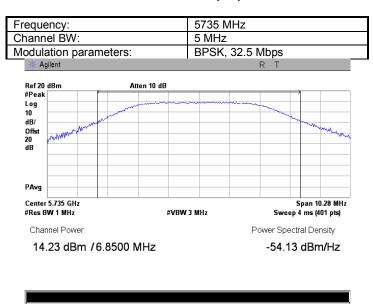




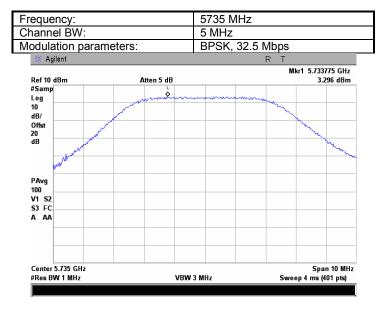


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	Verdict. PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.185 Peak output power



Plot 7.1.186 Peak spectral power density

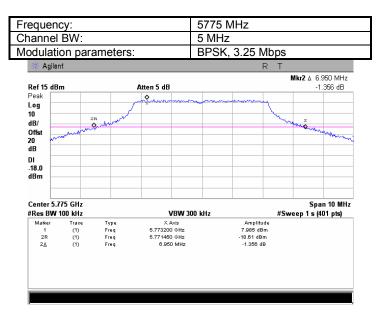




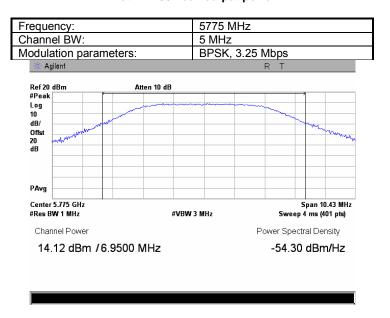


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict.	PASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.187 The 26 dB emission bandwidth



Plot 7.1.188 Peak output power

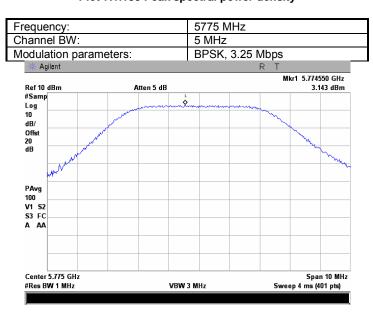




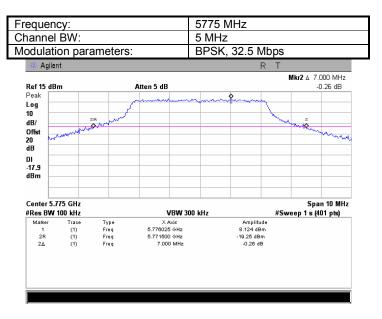


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	Verdict. PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.189 Peak spectral power density



Plot 7.1.190 The 26 dB emission bandwidth

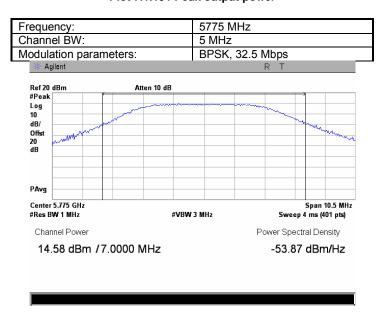




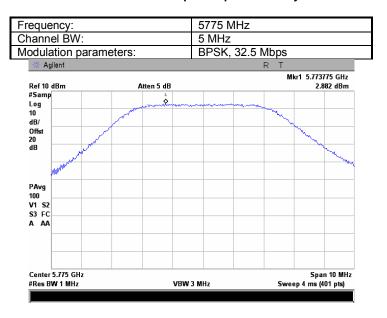


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict: PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.191 Peak output power



Plot 7.1.192 Peak spectral power density

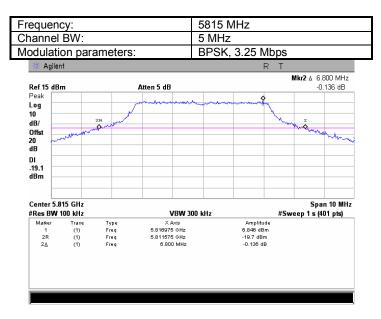




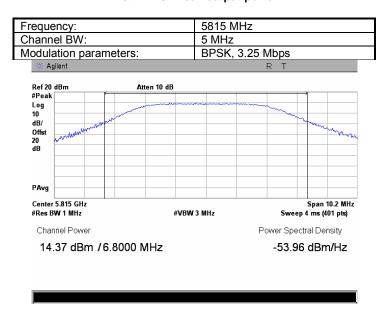


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC				
Remarks: EUT with 22.5 dBi antenna assembly gain							

Plot 7.1.193 The 26 dB emission bandwidth



Plot 7.1.194 Peak output power

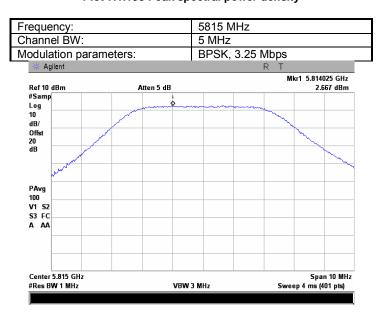




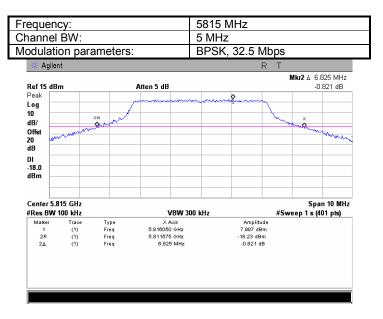


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 22.5 dBi antenna assembly gain						

Plot 7.1.195 Peak spectral power density



Plot 7.1.196 The 26 dB emission bandwidth

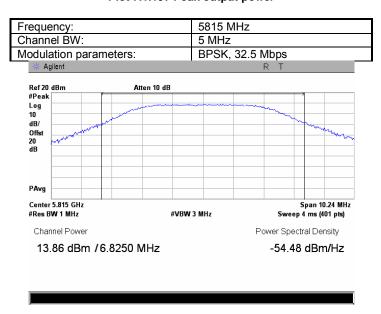




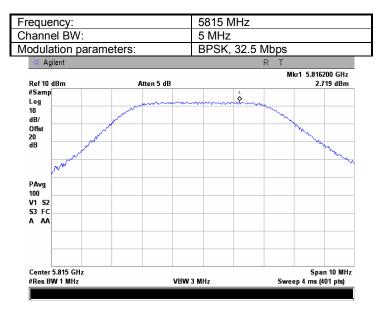


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 22.5 dBi antenna assembly gain						

Plot 7.1.197 Peak output power



Plot 7.1.198 Peak spectral power density

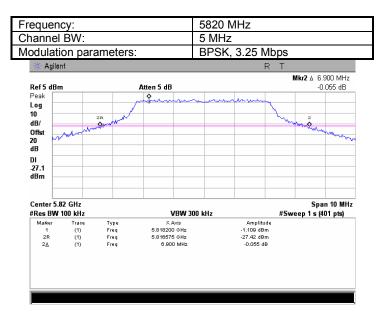




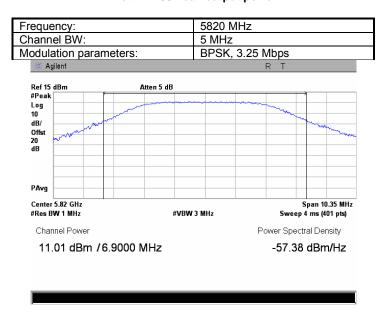


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC				
Remarks: EUT with 22.5 dBi antenna assembly gain							

Plot 7.1.199 The 26 dB emission bandwidth



Plot 7.1.200 Peak output power

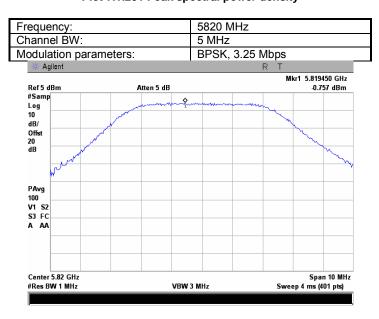




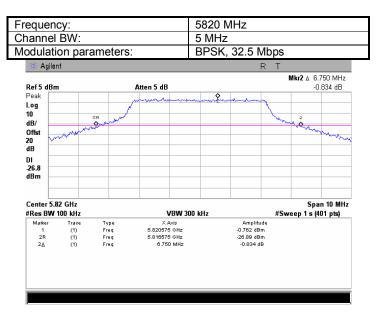


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 22.5 dBi antenna assembly gain						

Plot 7.1.201 Peak spectral power density



Plot 7.1.202 The 26 dB emission bandwidth

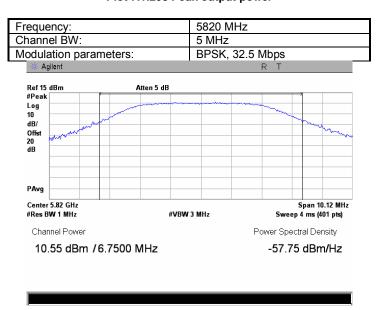




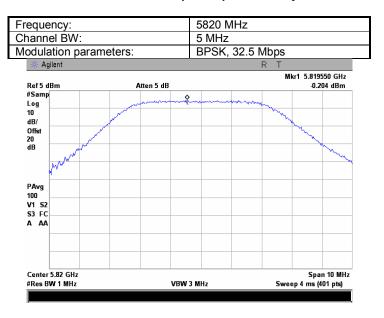


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 22.5 dBi antenna assembly gain						

Plot 7.1.203 Peak output power



Plot 7.1.204 Peak spectral power density







Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC				
Remarks: EUT with 27.9 dBi antenna assembly gain							

## Table 7.1.18 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:

9 OFDM
Peak
1 MHz
1 MHz
3 MHz

METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)

ANTENNA ASSEMBLY GAIN 28 dBi EMISSION BANDWUIDTH 40 MHz

Frequency, 26 dB		Bit Rate,		Output power					
MHz Bandwidth		MBps	Modulation	Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	Verdict	
Low channel I	Low channel Band Edge								
5745.0	47.400	27	BPSK	-2.38	0.62	25.0	-24.38	Pass	
5745.0	47.550	270	64QAM	-2.65	0.35	25.0	-24.65	Pass	
Mid channel									
5775.0	47.550	27	BPSK	20.75	23.75	25.0	-1.25	Pass	
5775.0	46.800	270	64QAM	20.85	23.85	25.0	-1.15	Pass	
High channel	High channel Band Edge								
5805.0	47.100	27	BPSK	-3.86	-0.86	25.0	-25.86	Pass	
5805.0	46.650	270	64QAM	-3.46	-0.46	25.0	-25.46	Pass	

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

<sup>\*\* -</sup> Margin = Total output power – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC				
Remarks: EUT with 27.9 dBi antenna assembly gain							

Table 7.1.19 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
Peak
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
1 MHz
3 MHz

METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)

ANTENA ASSEMBLY GAIN 28 dBi EMISSION BANDWIDTH 20 MHz

LIVII 3 3 1 O N D	ANDWIDTH			201	VII IZ			
Frequency,	26 dB	Bit Rate,			Output	power		
MHz Bandwidth, MHz	MBps Modulation	Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	Verdict		
Low channel E	Band Edge							
5735	24.225	13	BPSK	-6.83	-3.83	25.0	-28.83	Pass
5735	23.775	130	64QAM	-6.98	-3.98	25.0	-28.98	Pass
Low channel I	n-Band							
5755	23.700	13	BPSK	21.54	24.54	25.0	-0.46	Pass
5755	23.625	130	64QAM	21.26	24.26	25.0	-0.74	Pass
Mid channel								
5775	23.700	13	BPSK	20.94	23.94	25.0	-1.06	Pass
5775	22.875	130	64QAM	20.85	23.85	25.0	-1.15	Pass
High channel	In-Band							
5795	23.550	13	BPSK	20.02	23.02	25.0	-1.98	Pass
5795	23.100	130	64QAM	21.18	24.18	25.0	-0.82	Pass
High channel	Band Edge							
5815	24.300	13	BPSK	-8.73	-5.73	25.0	-30.73	Pass
5815	23.775	130	64QAM	-8.86	-5.86	25.0	-30.86	Pass

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

<sup>\*\* -</sup> Margin = Total output power – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 27.9 dBi antenna assembly gain						

Table 7.1.20 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL: OFDM **DETECTOR USED:** Peak RESOLUTION BANDWIDTH: 1 MHz VIDEO BANDWIDTH: 3 MHz

METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)

ANTENNA ASSEMBLY GAIN 28 dBi EMISSION BANDWIDTH 10 MHz

LIVIIOGICIA DI	WINDIN			10 1	/II IZ			
Frequency,	26 dB	Bit Rate,			Output	ower		
MHz Bandwidth,	MBps Modulation	Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	Verdict		
Low channel	Band Edge							
5735	14.45	6.5	BPSK	10.52	13.52	23.6	-10.08	Pass
5735	13.30	65	64QAM	9.68	12.68	23.2	-10.56	Pass
Low channel	In-Band							
5740	14.30	6.5	BPSK	20.37	23.37	23.6	-0.18	Pass
5740	13.90	65	64QAM	19.99	22.99	23.4	-0.44	Pass
Mid channel				-				
5775	14.15	6.5	BPSK	20.25	23.25	23.5	-0.26	Pass
5775	13.90	65	64QAM	20.20	23.20	23.4	-0.23	Pass
High channe	In-Band			-				
5810	14.45	6.5	BPSK	19.12	22.12	23.6	-1.48	Pass
5810	13.80	65	64QAM	19.44	22.44	23.4	-0.96	Pass
High channel	Band Edge							
5815	14.10	6.5	BPSK	9.18	12.18	23.5	-11.31	Pass
5815	14.00	65	64QAM	9.51	12.51	23.5	-10.95	Pass

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

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





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC						
Remarks: EUT with 27.9 dBi antenna assembly gain							

## Table 7.1.21 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
Peak
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
1 MHz
3 MHz

METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)

ANTENA ASSEMBLY GAIN 28 dBi EMISSION BANDWIDTH 5 MHz

	ANDWIDTT			3 IVII	1 12			
Frequency,	26 dB	Bit Rate,			Output	ower		
MHz	Bandwidth, MHz	width, MRns Modulation	Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	Verdict	
Low channel	Band Edge							
5730	7.175	3.25	BPSK	6.61	9.61	20.6	-10.95	Pass
5730	6.825	32.5	64QAM	6.15	9.15	20.3	-11.19	Pass
Low channel	In-Band							
5735	6.850	3.25	BPSK	8.68	11.68	20.4	-8.68	Pass
5735	6.800	32.5	64QAM	8.66	11.66	20.3	-8.67	Pass
Mid channel								
5775	6.850	3.25	BPSK	7.81	10.81	20.4	-9.55	Pass
5775	6.725	32.5	64QAM	8.20	11.20	20.3	-9.08	Pass
High channe	l In-Band							
5815	6.750	3.25	BPSK	7.49	10.49	20.3	-9.80	Pass
5815	6.750	32.5	64QAM	7.28	10.28	20.3	-10.01	Pass
High channe	l Band Edge							
5820	7.150	3.25	BPSK	5.09	8.09	20.5	-12.45	Pass
5820	6.675	32.5	64QAM	4.56	7.56	20.2	-12.68	Pass

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

# Reference numbers of test equipment used

HL 2909   HL 2953   HL 3768   HL 3776   HL 3787
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Full description is given in Appendix A.

<sup>\*\* -</sup> Margin = Total output power – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 27.9 dBi antenna assembly gain						

## Table 7.1.22 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
3 MHz

METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

ANTENNA ASSEMBLY GAIN 28 dBi EMISSION BANDWIDTH 40 MHz

	-,	•					
Frequency, Bit Rate,			Peak power spectral density				
MHz MBps	Modulation	Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	Verdict	
Low channel	Band Edge						
5745.0	27	BPSK	-23.08	-20.08	12.0	-32.08	Pass
5745.0	270	64QAM	-22.77	-19.77	12.0	-31.77	Pass
Mid channel							
5775.0	27	BPSK	0.43	3.43	12.0	-8.57	Pass
5775.0	270	64QAM	1.32	4.32	12.0	-7.68	Pass
High channel	l Band Edge						
5805.0	27	BPSK	-23.80	-20.80	12.0	-32.80	Pass
5805.0	270	64QAM	-23.75	-20.75	12.0	-32.75	Pass

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

<sup>\*\* -</sup> Margin = Total peak power density – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 27.9 dBi antenna assembly gain						

## Table 7.1.23 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL: OFDM
DETECTOR USED: Sample
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz

METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

ANTENA ASSEMBLY GAIN 28 dBi EMISSION BANDWIDTH 20 MHz

LIVIIOGICITE	e, 12 11 12 1 1	-		-0 1411 12				
Frequency,	Bit Rate,			Peak power spectral	density			
MHz	MBps	Modulation	Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	Verdict	
Low channel	Band Edge							
5735	13	BPSK	-24.7	-21.70	12.0	-33.70	Pass	
5735	130	64QAM	-24.2	-21.17	12.0	-33.17	Pass	
Low channel	Low channel In-Band							
5755	13	BPSK	3.75	6.75	12.0	-5.25	Pass	
5755	130	64QAM	3.43	6.43	12.0	-5.57	Pass	
Mid channel								
5775	13	BPSK	3.43	6.43	12.0	-5.57	Pass	
5775	130	64QAM	3.87	6.87	12.0	-5.13	Pass	
High channel	I In-Band							
5795	13	BPSK	3.12	6.12	12.0	-5.88	Pass	
5795	130	64QAM	4.21	7.21	12.0	-4.79	Pass	
High channel	Band Edge							
5815	13	BPSK	-26.6	-23.60	12.0	-35.60	Pass	
5815	130	64QAM	-26.4	-23.36	12.0	-35.36	Pass	

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

<sup>\*\* -</sup> Margin = Total peak power density – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 27.9 dBi antenna assembly gain						

## Table 7.1.24 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL: OFDM
DETECTOR USED: Sample
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz

METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

ANTENA ASSEMBLY GAIN 28 dBi EMISSION BANDWIDTH 10 MHz

EIVIIOSION	SANDVIDIT			I U IVITIZ			
Frequency,	Bit Rate.		Peak power spectral density				
MHz MBps	Modulation	Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	Verdict	
Low channel	Band Edge						
5735	6.5	BPSK	-5.0	-2.01	12.0	-14.01	Pass
5735	65	64QAM	-4.4	-1.42	12.0	-13.42	Pass
Low channel	In-Band						
5740	6.5	BPSK	5.8	8.76	12.0	-3.24	Pass
5740	65	64QAM	5.9	8.87	12.0	-3.13	Pass
Mid channel							
5775	6.5	BPSK	5.7	8.72	12.0	-3.28	Pass
5775	65	64QAM	5.6	8.55	12.0	-3.45	Pass
High channel	I In-Band						
5810	6.5	BPSK	4.4	7.38	12.0	-4.62	Pass
5810	65	64QAM	5.0	7.95	12.0	-4.05	Pass
High channel	Band Edge						
5815	6.5	BPSK	-5.6	-2.64	12.0	-14.64	Pass
5815	65	64QAM	-5.5	-2.51	12.0	-14.51	Pass

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

<sup>\*\* -</sup> Margin = Total peak power density – specification limit.





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density						
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/24/2010	verdict.	PASS				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC						
Remarks: EUT with 27.9 dBi antenna assembly gain							

## Table 7.1.25 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz

MODULATING SIGNAL:
DETECTOR USED:
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
3 MHz

METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)

ANTENA ASSEMBLY GAIN 28 dBi EMISSION BANDWIDTH 5 MHz

Frequency	Bit Rate,			Peak power spectral	density			
Frequency, MHz	MBps	Modulation	Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	Verdict	
Low channel	Band Edge							
5730	3.25	BPSK	-5.6	-2.60	12.0	-14.60	Pass	
5730	32.5	64QAM	-5.8	-2.82	12.0	-14.82	Pass	
Low channel	Low channel In-Band							
5735	3.25	BPSK	-3.28	-0.28	12.0	-12.28	Pass	
5735	32.5	64QAM	-2.46	0.54	12.0	-11.46	Pass	
Mid channel								
5775	3.25	BPSK	-3.38	-0.38	12.0	-12.38	Pass	
5775	32.5	64QAM	-3.62	-0.62	12.0	-12.62	Pass	
High channel	In-Band							
5815	3.25	BPSK	-3.79	-0.79	12.0	-12.79	Pass	
5815	32.5	64QAM	-3.74	-0.74	12.0	-12.74	Pass	
High channel	Band Edge							
5820	3.25	BPSK	-6.9	-3.92	12.0	-15.92	Pass	
5820	32.5	64QAM	-7.1	-4.10	12.0	-16.10	Pass	

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

### Reference numbers of test equipment used

HL 2909   HL 2953   HL 3768   HL 3776   HL 3787	
HL 2909	

Full description is given in Appendix A.

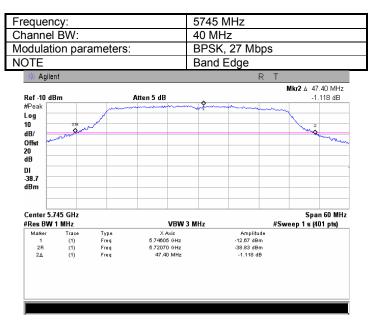
<sup>\*\* -</sup> Margin = Total peak power density – specification limit.



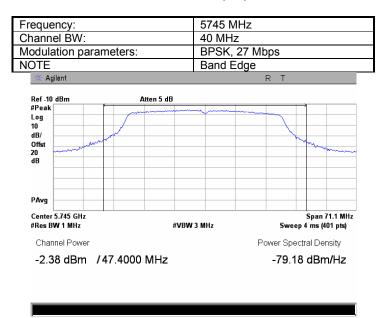


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/24/2010	verdict.	PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.205 The 26 dB emission bandwidth



Plot 7.1.206 Peak output power

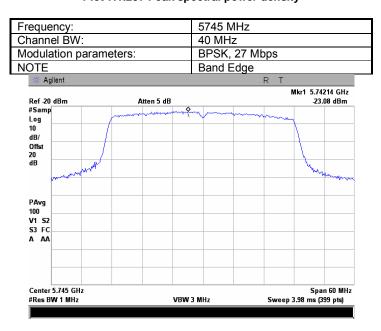






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/24/2010	verdict.	PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.207 Peak spectral power density



Plot 7.1.208 The 26 dB emission bandwidth

requenc	:y:			5745 N	1Hz		
hannel				40 MHz			
odulatio	on pa	rameters	i:	64QAN	1, 270 M	lbps	
OTE				Band E	dge		
🔆 Agilen	ŧ				R	T	
						Mkr2 ∆	47.55 MHz
Ref -10 dB	m		Atten 5 dB				0.172 dB
#Peak				manage	moment	many	
Log		1				1	
10	ZR	WAY AND THE STREET				Mr.	0
dB/	2R						Quantity of the same of the sa
							*****
20 dB							
DI							
-37.8							
dBm							
-							
Center 5.74	IE CU-					· ·	an 60 MHz
#Res BW 1			VBW	3 MHz		#Sweep 1 s	
Marker	Trace	Type	X Axis		Amplitude		
1	(1)	Freq	5.74965 GHz		-11.82 dBm		
2R	(1)	Freq	5.72085 GHz		-38.53 dBm		
2∆	(1)	Freq	47.55 MHz		0.172 dB		

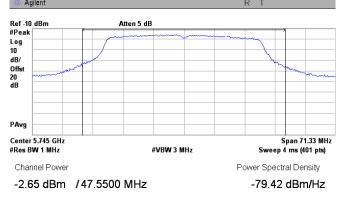




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/24/2010	verdict.	PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

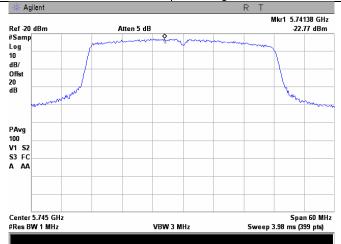
Plot 7.1.209 Peak output power

Frequency:	5745 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Plot 7.1.210 Peak spectral power density

Frequency:	5745 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge

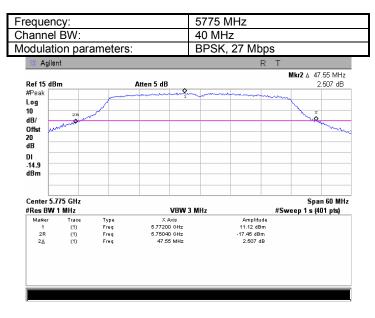




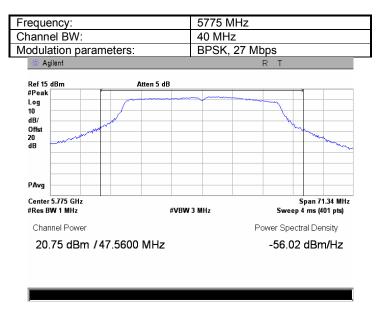


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/24/2010	verdict.	PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.211 The 26 dB emission bandwidth



Plot 7.1.212 Peak output power

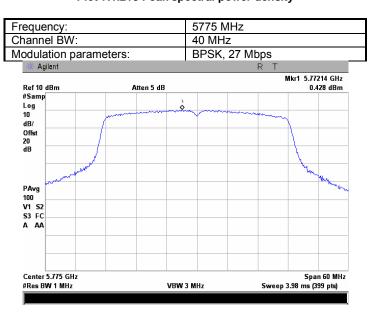




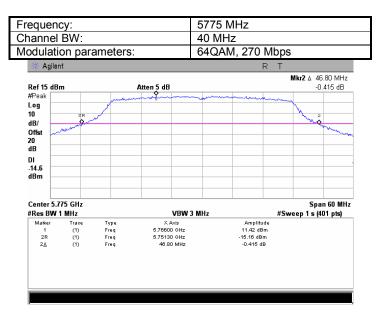


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.213 Peak spectral power density



Plot 7.1.214 The 26 dB emission bandwidth



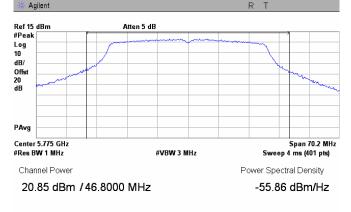




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	FASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

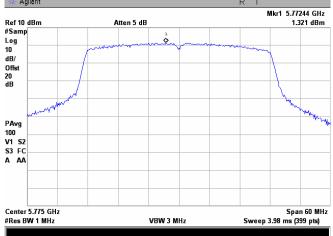
Plot 7.1.215 Peak output power

Frequency:	5775 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps



Plot 7.1.216 Peak spectral power density

Frequency:	5775 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
<b>₩</b> Agilent	R T

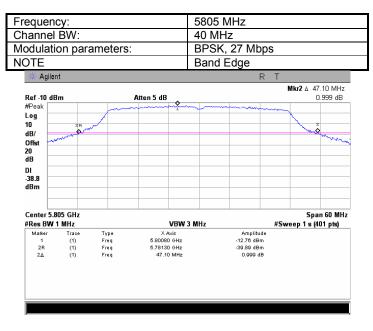




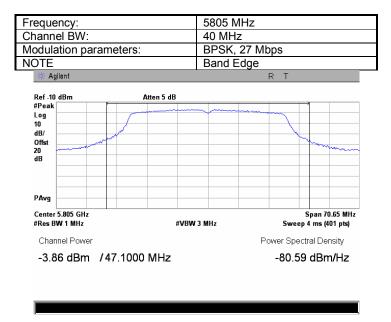


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	verdict. PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.217 The 26 dB emission bandwidth



Plot 7.1.218 Peak output power

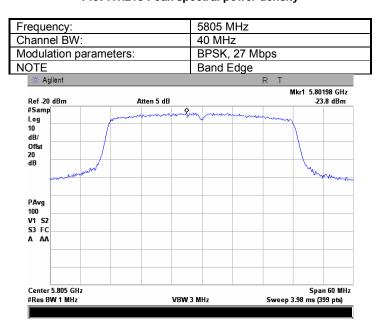






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	FASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.219 Peak spectral power density



Plot 7.1.220 The 26 dB emission bandwidth

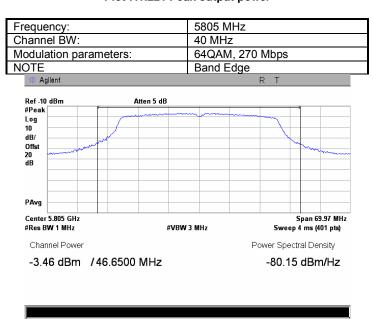
Frequency:			5805 MHz				
Channel BW:		40 MHz					
Modulation parameters:		64QAM, 270 Mbps					
IOTE							
			RT				
Ref -10 dBr	n		Atten 5 dB		'	Mkr2 ∆ 46.65 MHz -0.52 dB	
#Peak				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
Log		1				Ч	
10	2R QA					Ž	
dB/	and the same					1000	mom
Offst 20							244
dB							
DI							
38.9							
dBm							
Center 5.80	5 GHz						60 MHz
#Res BW 1	MHz		VBW	3 MHz	#Sw	eep 1 s (40	1 pts)
Marker	Trace	Type	X Axis	Ampl			
1 2R	(1) (1)	Freq Freq	5.79630 GHz 5.78175 GHz	-12.91 ( -38.89 (			
2∆	(1)	Freq	46.65 MHz	-0.52			





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section 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:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.221 Peak output power



Plot 7.1.222 Peak spectral power density

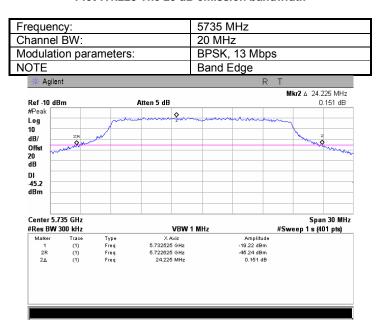
requency:		5805 MHz
Channel BW		40 MHz
/lodulation p	arameters:	64QAM, 270 Mbps
OTE		Band Edge
* Agilent		R T
Ref -20 dBm	Atten 5 dB	Mkr1 5.80108 GHz -23.75 dBm
#Samp Log 10 dB/		
Offst 20		
PAvg		Manufacture of the state of the
100 V1 S2 S3 FC A AA		
Center 5.805 GH: #Res BW 1 MHz		Span 60 MHz 3 MHz Sweep 3.98 ms (399 pts)



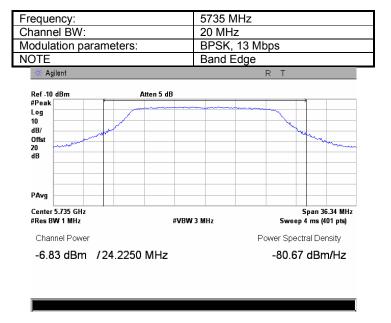


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.223 The 26 dB emission bandwidth



Plot 7.1.224 Peak output power

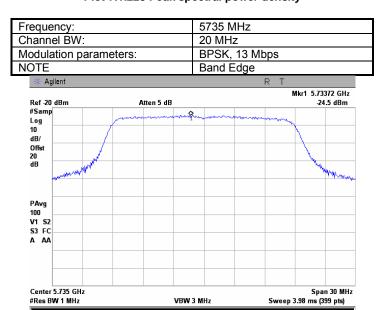






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.225 Peak spectral power density



Plot 7.1.226 The 26 dB emission bandwidth

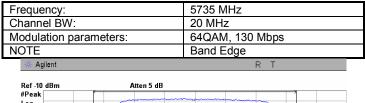
				_			
equenc	ency: 5735 MHz						
hannel			20 MHz				
odulatio	nn nar	ameters	2.	64QAM, 130 Mbps			
	on pan	arrictor	J.			рро	
OTE				Band E	age		
₩ Agilent R T				Т			
						Mkr2 A 23.775 MHz	
Ref -10 dB	m		Atten 5 dB			1.306 dB	
#Peak				•	h		
Log 10				7			
	28					2	
Offst	2R 	~				Man and Man an	
20	2/11					100 m	
dB							
DI -							
43.8							
dBm							
Center 5.7						Span 30 MHz	
#Res BW 3	00 kHz			1 MHz		#Sweep 1 s (401 pts)	
Marker 1	Trace	Type	X Axis 5.736200 GHz		Amplitude -17.79 dBm		
	(1) (1)	Freq Freq	5.736200 GHz 5.722700 GHz		-17.79 dBm -46.01 dBm		
2R		Freq	23.775 MHz		1.306 dB		

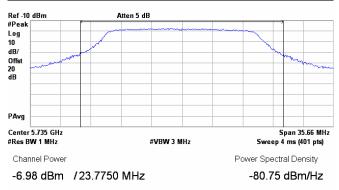




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 27.9 dBi antenna assembly gain					

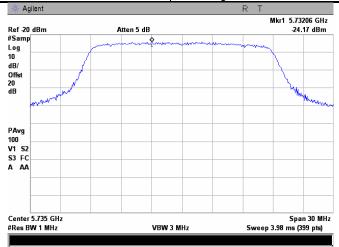
Plot 7.1.227 Peak output power





Plot 7.1.228 Peak spectral power density

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge

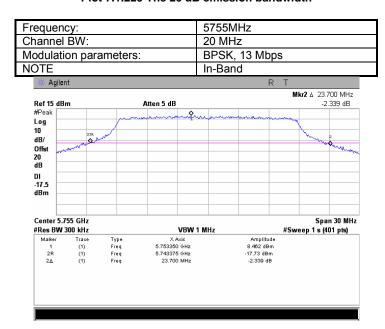






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.229 The 26 dB emission bandwidth



Plot 7.1.230 Peak output power

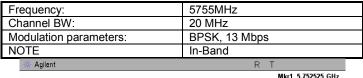
Frequency: 5755M				
Channel BW:		20 MHz		
Modulation para	meters:	BPSK, 13 Mbps		
NOTE		In-Band		
* Agilent			R T	
Ref 20 dBm	Atten 10 dB			
#Peak				
Log 10				
dB/	and the second second			
Offst 20	1		The state of the s	
dB			The state of the s	
PAvg				
Center 5.755 GHz			Span 35.55 MHz	
#Res BW 1 MHz	#VBW	3 MHz	Sweep 4 ms (401 pts)	
Channel Power		F	Power Spectral Density	
21.54 dBm /	23.7000 MHz		-52.20 dBm/Hz	

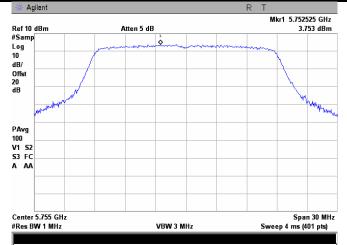




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 27.9 dBi antenna assembly gain					

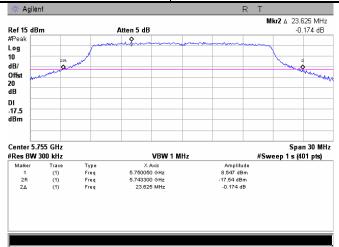
Plot 7.1.231 Peak spectral power density





Plot 7.1.232 The 26 dB emission bandwidth

Frequency:	5755MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

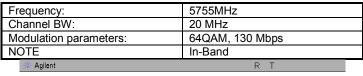


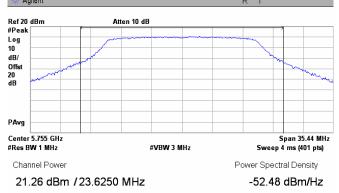




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 27.9 dBi antenna assembly gain					

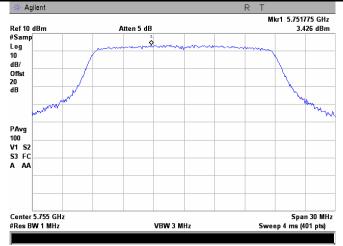
Plot 7.1.233 Peak output power





Plot 7.1.234 Peak spectral power density

Frequency:	5755MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

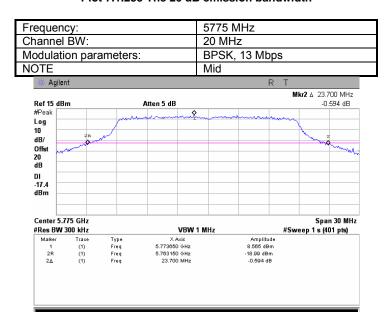






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa Relative Humidity: 51 % Power Supply: 120 VAC				
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.235 The 26 dB emission bandwidth



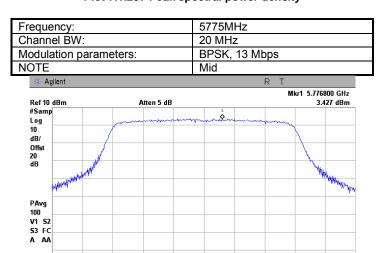
Plot 7.1.236 Peak output power

Frequency: 5775M			ИHz		
Channel BW: 20 MHz		Z			
Modulat	dulation parameters: BPSK,		13 Mbps		
NOTE			Mid		
# Agile	ent			R T	
Ref 20 di	Bm	Atten 10 dB			
#Peak		1			7
Log					
10 dB/				1	
Offst	Julian				Ym.
20	and the same				The state of the s
dB 🍟					
PAvq					
- L					
	.775 GHz				Span 35.55 MHz
#Res BW	/ 1 MHz	#VB\	W 3 MHz	Swee	p 4 ms (401 pts)
Chann	nel Power			Power Spe	ctral Density
20.9	94 dBm /	23.7000 MHz		-52.8	1 dBm/Hz



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.237 Peak spectral power density



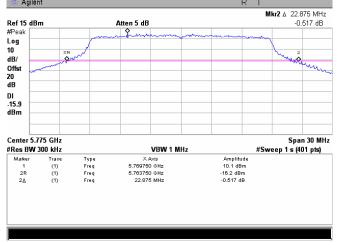
Plot 7.1.238 The 26 dB emission bandwidth

VBW 3 MHz

Span 30 MHz Sweep 4 ms (401 pts)

Center 5.775 GHz #Res BW 1 MHz

Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Mid
₩ Agilent	R T
	Mkr2 ∆ 22.875 MHz

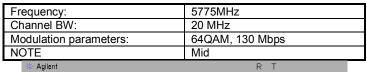


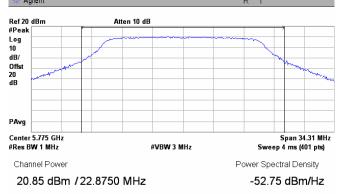




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	verdict.	PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

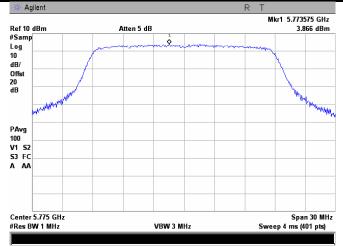
Plot 7.1.239 Peak output power





Plot 7.1.240 Peak spectral power density

Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Mid

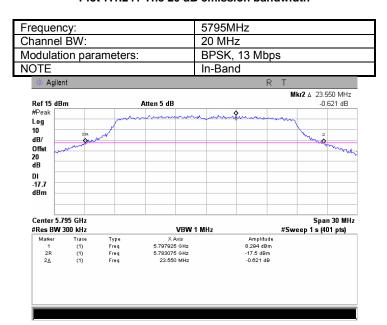






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.241 The 26 dB emission bandwidth



Plot 7.1.242 Peak output power

Frequency:

5795MHz

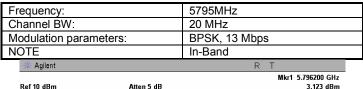
odulation para OTE	meters:	BPSK, 13 In-Band	Mbps	
* Agilent		•	R T	
Ref 20 dBm	Atten 10 dB			
#Peak Log 10 dB/ Offst 20 dB				***************************************
PAvg				
Center 5.795 GHz #Res BW 1 MHz	#VBV	V 3 MHz	Span 3 Sweep 4 ms (4	5.33 MHz 101 pts)
Channel Power			Power Spectral De	nsity
20.02 dBm /	23.5500 MHz		-53.70 dBr	n/Hz

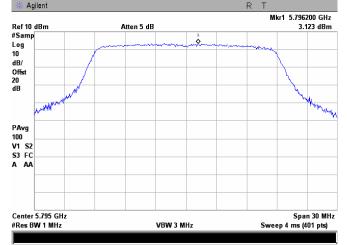




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010	verdict.	PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

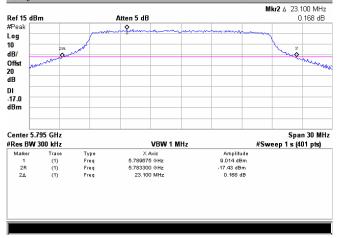
Plot 7.1.243 Peak spectral power density





Plot 7.1.244 The 26 dB emission bandwidth

Frequency: 5795MHz		5795MHz	
Channel BW:		20 MHz	
Modulation parameters:		64QAM, 130 Mbps	
NOTE		In-Band	
* Agilent		R T	
		Mkr2 ∆ 23.100 MHz	
Ref 15 dBm	Atten 5 dB	0.168 dB	

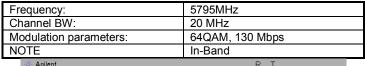


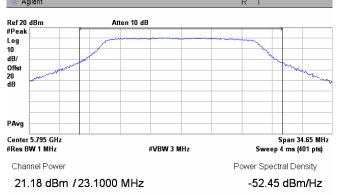




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

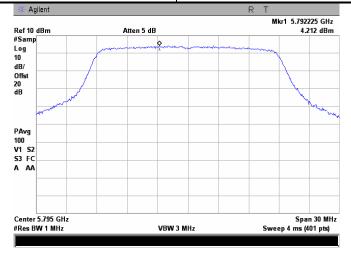
Plot 7.1.245 Peak output power





Plot 7.1.246 Peak spectral power density

Frequency:	5795MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

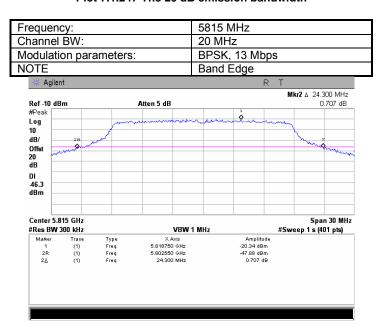






Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict: PASS			
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.247 The 26 dB emission bandwidth



Plot 7.1.248 Peak output power

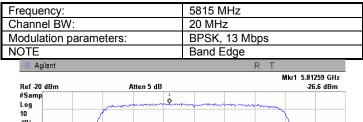
requency:		5815 MHz		
Channel BW:		20 MHz		
Modulation para	ameters:	BPSK, 13 Mbps		
NOTE		Band Edge	•	
* Agilent			R T	
Ref -10 dBm	Atten 5 dB			
#Peak				
Log 10				
dB/	- Lordon -		~~~.	
Offst 20	<u> </u>		The same	m
dB				
PAvg				
Center 5.815 GHz			Span 36	.45 MHz
#Res BW 1 MHz	#VBW	3 MHz	Sweep 4 ms (40	)1 pts)
Channel Power		F	Power Spectral Der	sity
-8.73 dBm	/24.3000 MHz		-82.58 dBm	/Hz





Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section 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:	3/24/2010	verdict.	PASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.249 Peak spectral power density



Plot 7.1.250 The 26 dB emission bandwidth

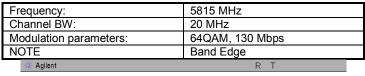
				5045			
requenc				5815 I			
Channel BW:		_	20 MHz				
odulatio	on para	ameters		64QAI	M, 130 M	bps	
OTE				Band			
🔆 Agilen	ť				R	Τ	
Ref -10 dB	m		Atten 5 dB			Mkr2	Δ 23.775 MHz -1.959 dB
#Peak			\$				
Log 10		~~~~~					
	2R	المحب				$\sim$	2
Offst	Market Starte	~					Market Market
							~~~
dB							
DI -45.6							
dBm							
	45 611						C 20 MII
Center 5.8 #Res BW 3			VRV	V 1 MHz		#Swoor	Span 30 MHz 1 s (401 pts)
Marker	Trace	Type	X Axis	V 1 M112	Amplitude	#3weep	r i s (40 i pisj
1	(1)	Freq	5.811175 GHz		-19.61 dBm		
2R 2A	(1) (1)	Freq Freq	5.803075 GHz 23.775 MHz		-45.74 dBm -1.959 dB		
_							

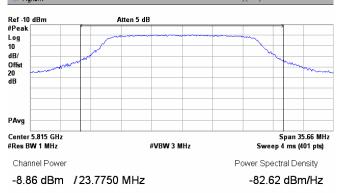




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

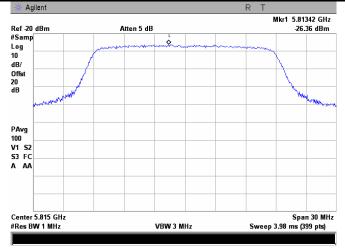
Plot 7.1.251 Peak output power





Plot 7.1.252 Peak spectral power density

Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge

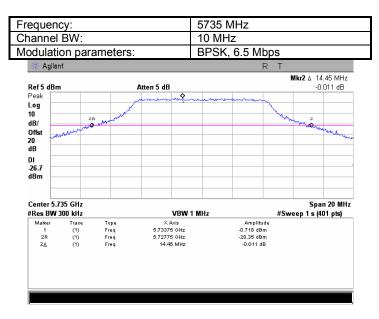




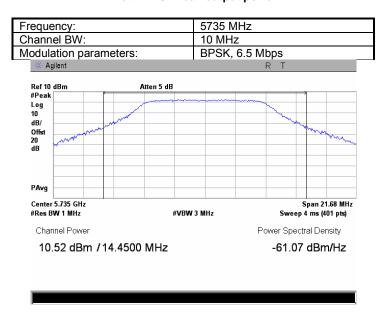


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.253 The 26 dB emission bandwidth



Plot 7.1.254 Peak output power

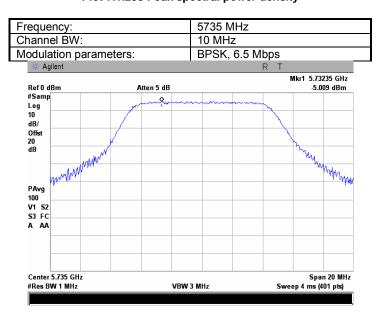




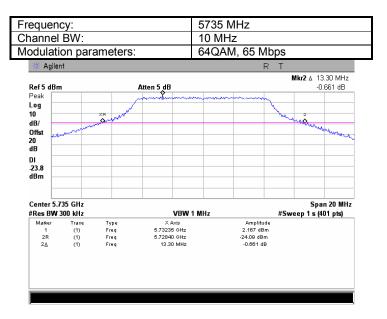


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.255 Peak spectral power density



Plot 7.1.256 The 26 dB emission bandwidth

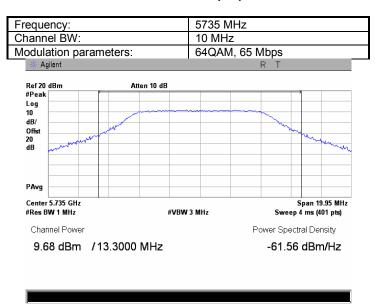




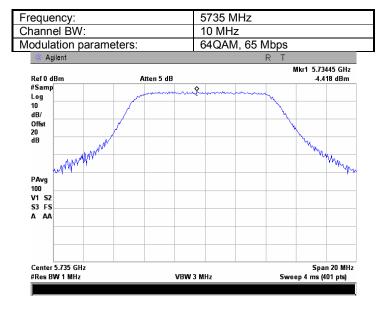


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.257 Peak output power



Plot 7.1.258 Peak spectral power density

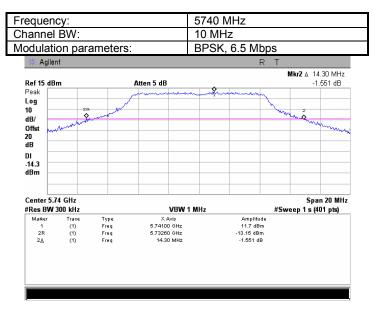




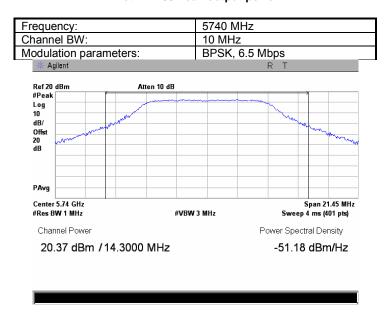


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS	
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.259 The 26 dB emission bandwidth



Plot 7.1.260 Peak output power

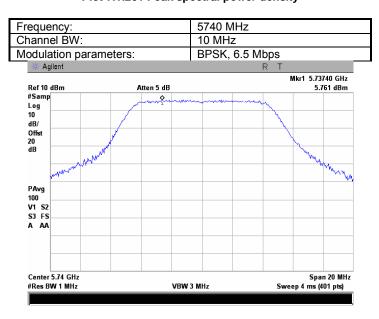




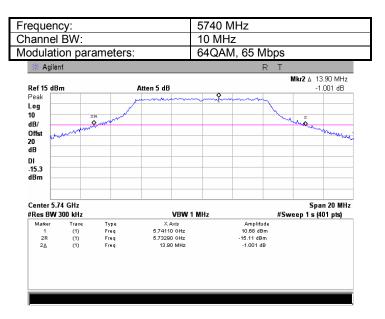


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict.	PASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.261 Peak spectral power density



Plot 7.1.262 The 26 dB emission bandwidth

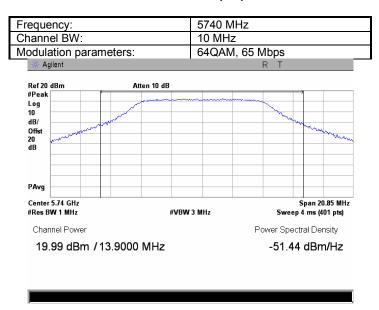




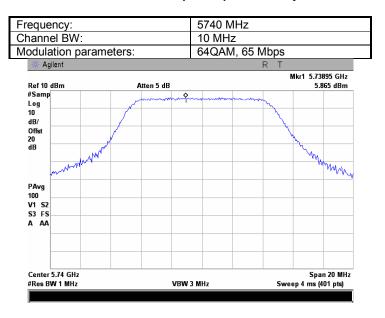


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict.	PASS
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.263 Peak output power



Plot 7.1.264 Peak spectral power density

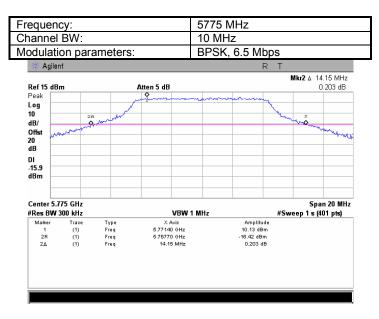






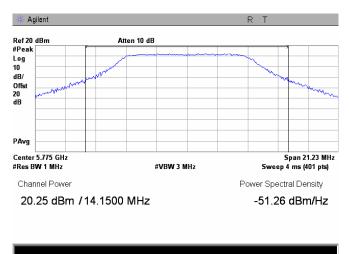
Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS		
Date:	3/24/2010	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.265 The 26 dB emission bandwidth



Plot 7.1.266 Peak output power

Frequency:	5775 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps

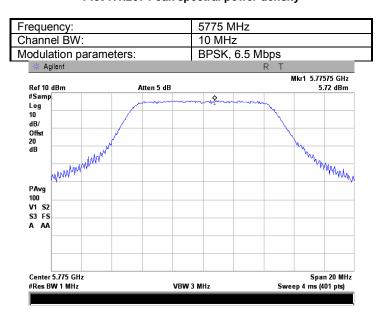




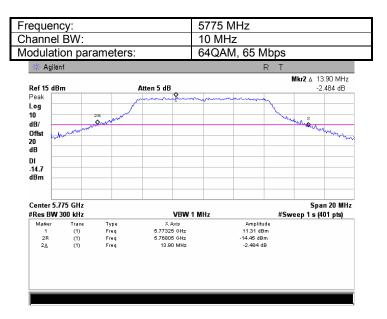


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PA	PASS	
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.267 Peak spectral power density



Plot 7.1.268 The 26 dB emission bandwidth

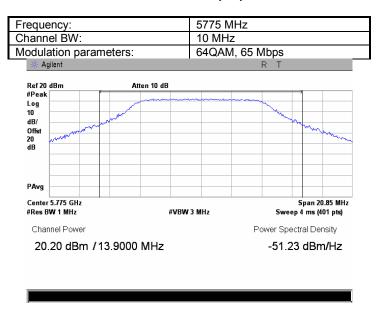




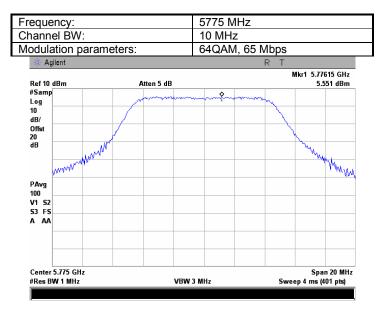


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010	verdict: PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.269 Peak output power



Plot 7.1.270 Peak spectral power density

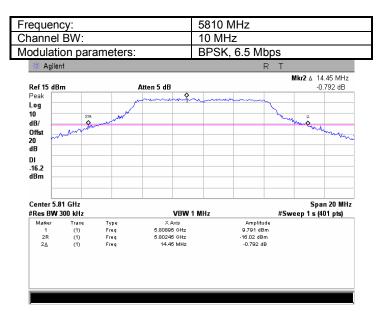




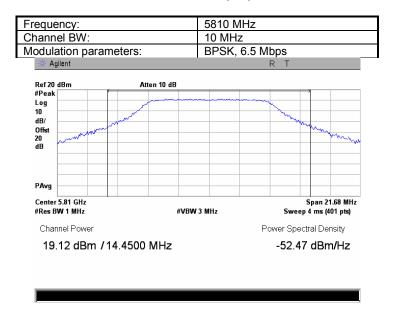


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/24/2010	verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.271 The 26 dB emission bandwidth



Plot 7.1.272 Peak output power

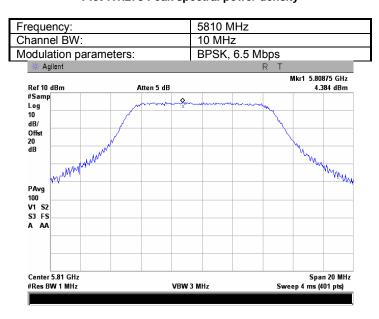




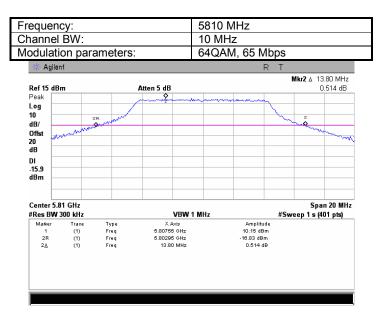


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PA	PASS	
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.273 Peak spectral power density



Plot 7.1.274 The 26 dB emission bandwidth

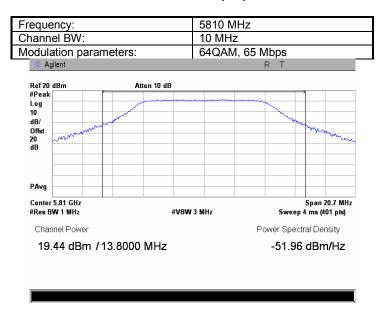




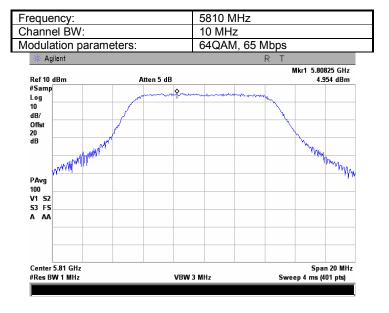


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PAS	PASS
Date:	3/24/2010	verdict: PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.275 Peak output power



Plot 7.1.276 Peak spectral power density

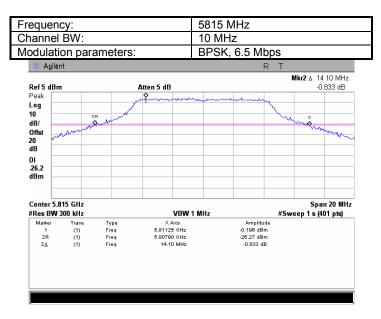




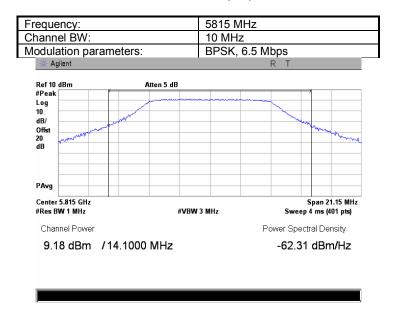


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PA	PASS	
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.277 The 26 dB emission bandwidth



Plot 7.1.278 Peak output power

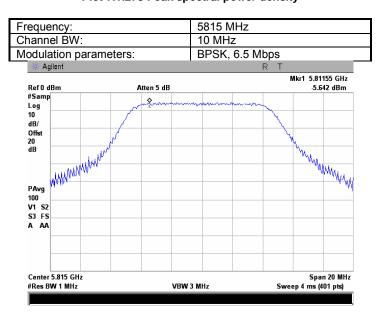




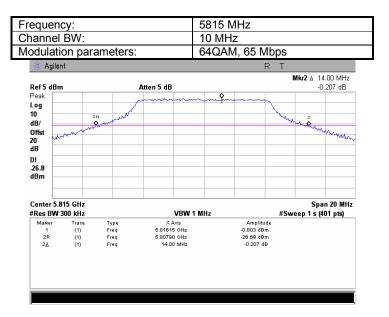


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PA	PASS	
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.279 Peak spectral power density



Plot 7.1.280 The 26 dB emission bandwidth

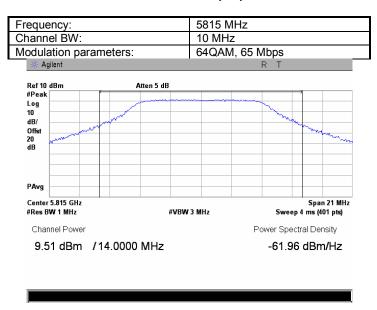




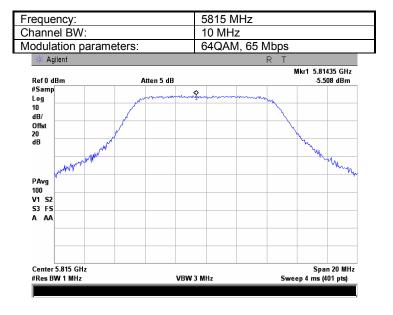


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PA	PASS	
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.281 Peak output power



Plot 7.1.282 Peak spectral power density

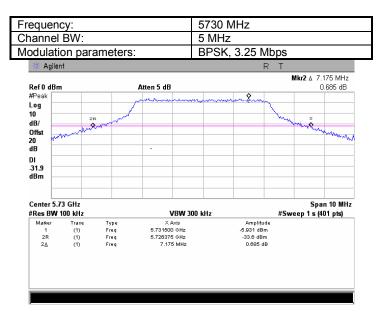




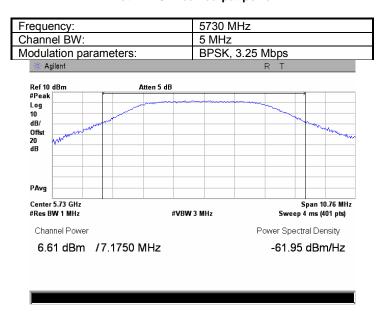


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PAS	PASS
Date:	3/24/2010	verdict: PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.283 The 26 dB emission bandwidth



Plot 7.1.284 Peak output power

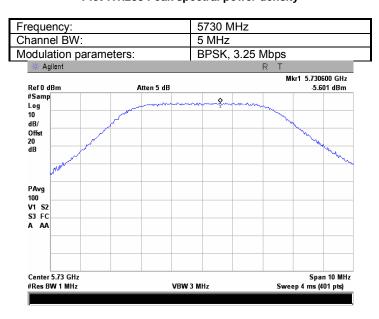




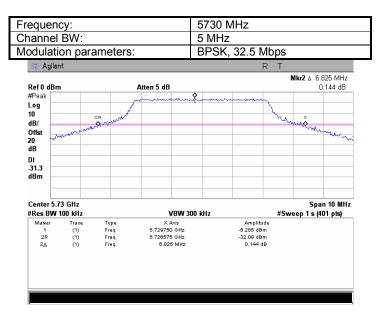


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PAS	PASS
Date:	3/24/2010	verdict: PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.285 Peak spectral power density



Plot 7.1.286 The 26 dB emission bandwidth

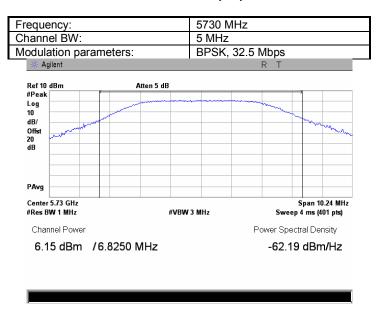




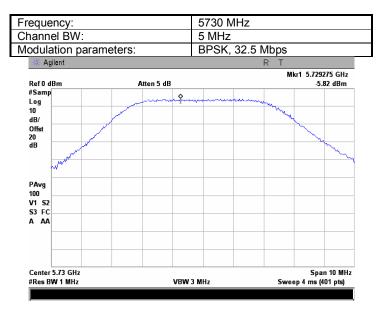


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PA	PASS	
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.287 Peak output power



Plot 7.1.288 Peak spectral power density

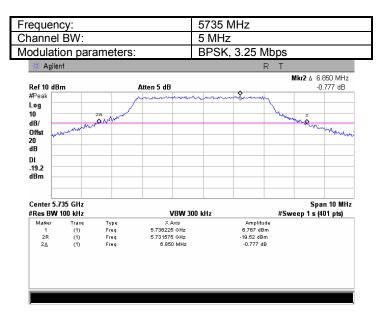




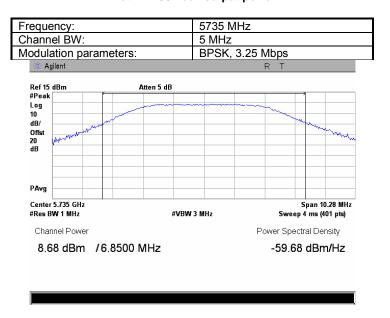


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density			
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PA	PASS	
Date:	3/24/2010	Verdict: PASS		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.1.289 The 26 dB emission bandwidth



Plot 7.1.290 Peak output power

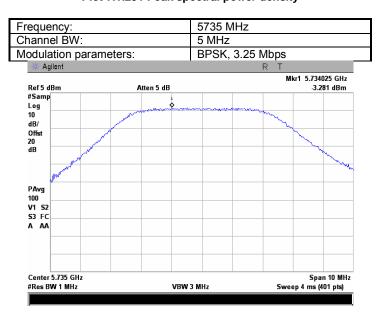




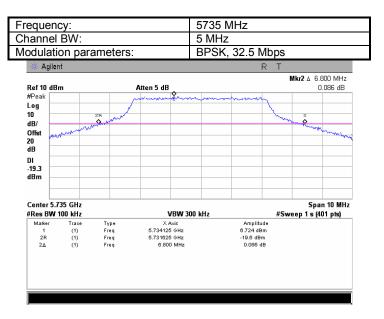


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS		
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.291 Peak spectral power density



Plot 7.1.292 The 26 dB emission bandwidth

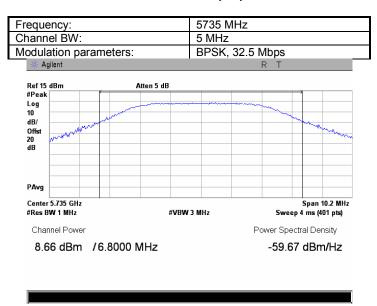




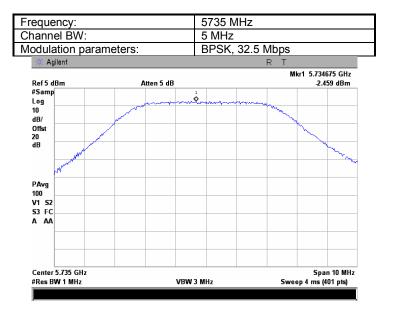


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS		
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.293 Peak output power



Plot 7.1.294 Peak spectral power density

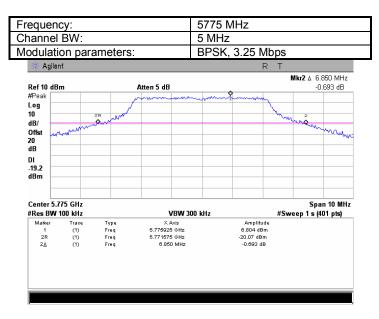




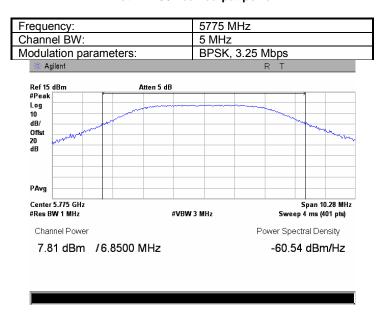


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density				
Test procedure:	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS		
Date:	3/24/2010				
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC		
Remarks: EUT with 27.9 dBi antenna assembly gain					

Plot 7.1.295 The 26 dB emission bandwidth



Plot 7.1.296 Peak output power

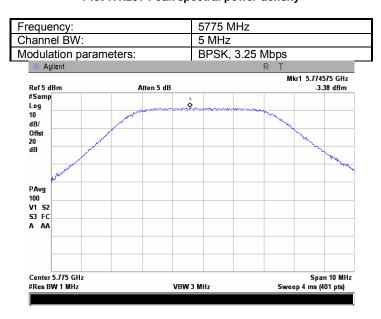




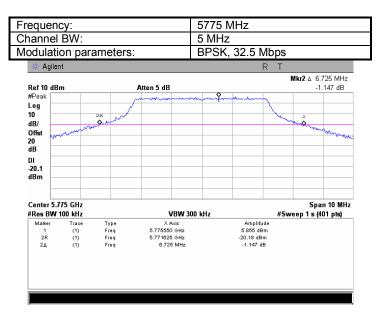


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 27.9 dBi antenna assembly gain						

Plot 7.1.297 Peak spectral power density



Plot 7.1.298 The 26 dB emission bandwidth

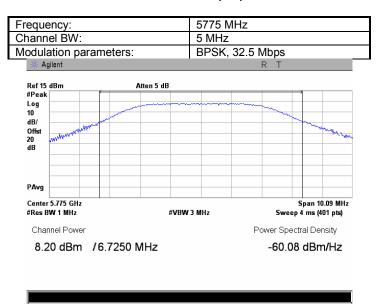




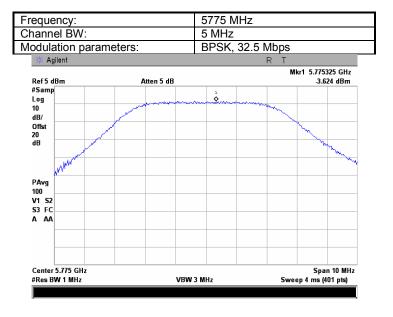


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 27.9 dBi antenna assembly gain						

Plot 7.1.299 Peak output power



Plot 7.1.300 Peak spectral power density

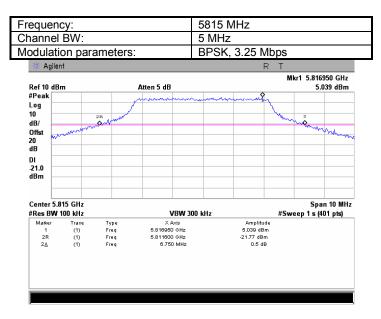




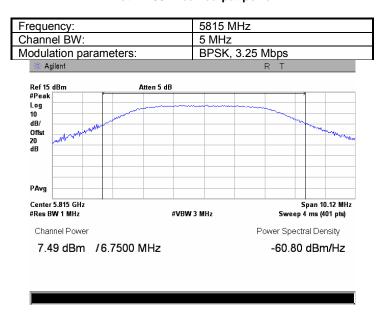


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 27.9 dBi antenna assembly gain						

Plot 7.1.301 The 26 dB emission bandwidth



Plot 7.1.302 Peak output power

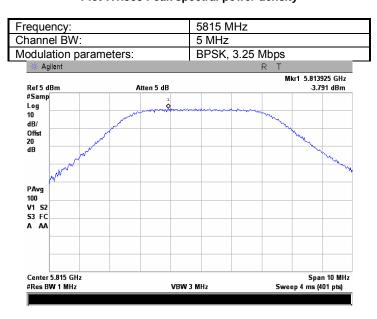




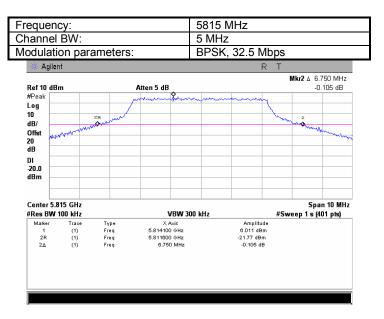


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 27.9 dBi antenna assembly gain						

Plot 7.1.303 Peak spectral power density



Plot 7.1.304 The 26 dB emission bandwidth

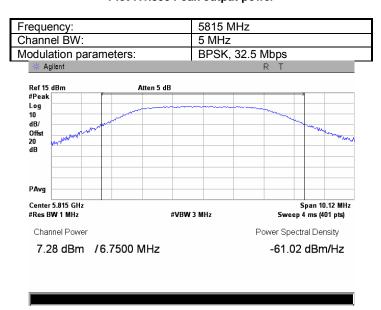




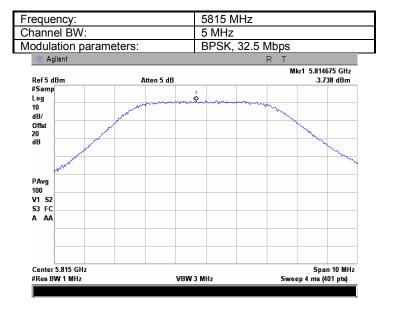


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 27.9 dBi antenna assembly gain						

Plot 7.1.305 Peak output power



Plot 7.1.306 Peak spectral power density

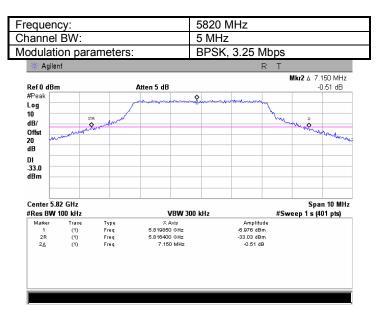




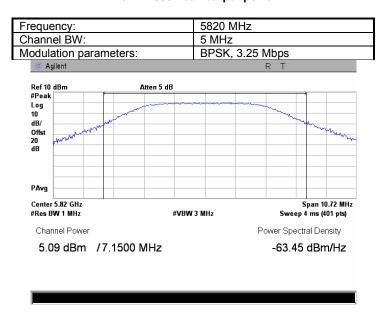


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 27.9 dBi antenna assembly gain						

Plot 7.1.307 The 26 dB emission bandwidth



Plot 7.1.308 Peak output power

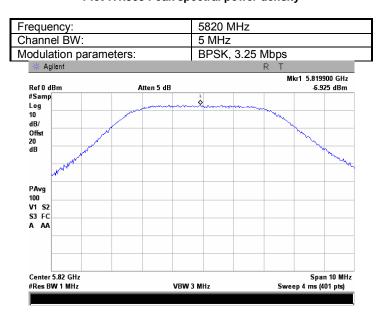




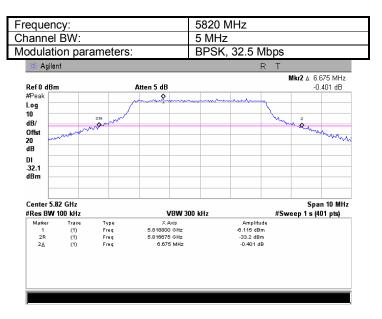


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 27.9 dBi antenna assembly gain						

Plot 7.1.309 Peak spectral power density



Plot 7.1.310 The 26 dB emission bandwidth

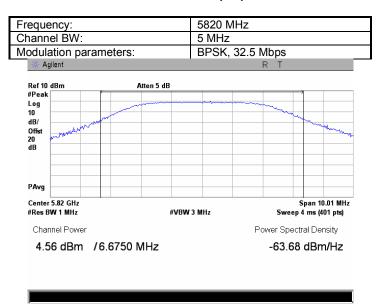




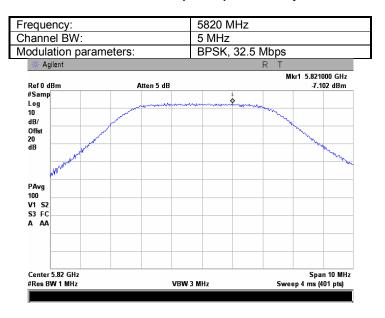


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS			
Date:	3/24/2010	verdict.	PASS			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC			
Remarks: EUT with 27.9 dBi antenna assembly gain						

Plot 7.1.311 Peak output power



Plot 7.1.312 Peak spectral power density







Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power				
Test procedure:	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS		
Date:	3/25/2009	verdict.	PASS		
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	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.

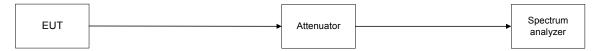
Table 7.2.1 Peak excursion limits

Assigned frequency, MHz	Maximum peak excursion, dB/MHz	
5725 - 5825	13.0	

## 7.2.2 Test procedure

- 7.2.2.1 The EUT was set up as shown in Figure 7.2.1, energized and its proper operation was checked.
- 7.2.2.2 The EUT was adjusted to produce maximum available to end user RF output power.
- **7.2.2.3** The measurements were performed in continuous transmission mode of operation for carrier (channel) frequency at low and high edges and at the middle of the frequency range.
  - The maximum peak excursion of modulation envelope was measured as a difference between 2 traces.
- 7.2.2.4 The test results were recorded in Table 7.2.2 to Table 7.2.5 and shown in the associated plots.

Figure 7.2.1 Ratio of peak excursion test setup







Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/25/2009	verdict.	PASS		
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC		
Remarks: EUT with 6 dBi antenna assembly gain					

# Table 7.2.2 Ratio of peak excursion test results

ASSIGNED FREQUENCY RANGE: 5725 - 5825 MHz

DETECTOR USED: 1-st trace : Peak, Max Hold

2-nd trace: Peak, 100 Power Averaging

TRANSMITTER OUTPUT POWER
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
EMISSION BANDWIDTH

TRANSMITTER OUTPUT POWER
A Maximum
A MHz

Maximum
A MHz

40 MHz

Frequency, MHz	Bit Rate, MBps	1-st trace, dBm	2-nd trace, dBm	Peak excursion, dB	Limit, dB	Margin, dB	Verdict
Low channe	Band Edge						
5745.0	27	10.45	6.15	4.30	13.0	-8.70	Pass
5745.0	270	11.89	7.08	4.81	13.0	-8.19	Pass
Mid channel				•		-	
5775.0	27	16.11	11.45	4.66	13.0	-8.34	Pass
5775.0	270	15.75	11.06	4.69	13.0	-8.31	Pass
High channe	High channel Band Edge						
5805.0	27	11.08	6.21	4.87	13.0	-8.13	Pass
5805.0	270	11.07	6.42	4.65	13.0	-8.35	Pass

## Table 7.2.3 Peak excursion test results

ASSIGNED FREQUENCY RANGE: 5725 - 5825 MHz

DETECTOR USED: 1-st trace : Peak, Max Hold

2-nd trace: Peak, 100 Power Averaging

TRANSMITTER OUTPUT POWER
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
EMISSION BANDWIDTH

20 MHz

LIVIIOGIOIN	DANDWIDTT		20 1011 12				
Frequency, MHz	Bit Rate, MBps	1-st trace, dBm	2-nd trace, dBm	Peak excursion, dB	Limit, dB	Margin, dB	Verdict
Low channe	l Band Edge						
5735	13	7.04	2.63	4.41	13.0	-8.59	Pass
5735	130	8.37	3.59	4.78	13.0	-8.22	Pass
Low channe	l In-Band						
5740	13	16.25	12.21	4.04	13.0	-8.96	Pass
5740	130	17.36	11.37	5.99	13.0	-7.01	Pass
Mid channe							
5775	13	14.89	10.48	4.41	13.0	-8.59	Pass
5775	130	16.9	11.54	5.36	13.0	-7.64	Pass
High channe	el In-Band		=	-			
5810	13	16.31	11.72	4.59	13.0	-8.41	Pass
5810	130	15.28	10.34	4.94	13.0	-8.06	Pass
High channe	el Band Edge						
5815	13	6.95	2.86	4.09	13.0	-8.91	Pass
5815	130	7.88	3.19	4.69	13.0	-8.31	Pass





Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/25/2009	verdict.	PASS		
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC		
Remarks: EUT with 6 dBi antenna assembly gain					

# Table 7.2.4 Peak excursion test results

ASSIGNED FREQUENCY RANGE: 5725 - 5825 MHz

DETECTOR USED: 1-st trace : Peak, Max Hold

2-nd trace: Peak, 100 Power Averaging

TRANSMITTER OUTPUT POWER
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
5 MHz
10 MHz
10 MHz
11 MHz

FINI 2210N	BANDWIDTH		10 MHz				
Frequency, MHz	Bit Rate, MBps	1-st trace, dBm	2-nd trace, dBm	Peak excursion, dB	Limit, dB	Margin, dB	Verdict
Low channe	l Band Edge						
5730	6.5	6.51	2.01	4.50	13.0	-8.50	Pass
5730	65	7.23	2.53	4.70	13.0	-8.30	Pass
Low channe	I In-Band			-		-	
5735	6.5	19.92	14.83	5.09	13.0	-7.91	Pass
5735	65	19.42	14.6	4.82	13.0	-8.18	Pass
Mid channel						-	
5775	6.5	18.64	14.01	4.63	13.0	-8.37	Pass
5775	65	18.27	13.56	4.71	13.0	-8.29	Pass
High channe	el In-Band						
5815	6.5	18.16	13.27	4.89	13.0	-8.11	Pass
5815	65	17.88	13.19	4.69	13.0	-8.31	Pass
High channe	High channel Band Edge						
5820	6.5	6.58	1.77	4.81	13.0	-8.19	Pass
5820	65	6.79	1.76	5.03	13.0	-7.97	Pass

# Table 7.2.5 Peak excursion test results

ASSIGNED FREQUENCY RANGE: 5725 - 5825 MHz

DETECTOR USED: 1-st trace : Peak, Max Hold

2-nd trace: Peak, 100 Power Averaging

TRANSMITTER OUTPUT POWER
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:
EMISSION BANDWIDTH

TAMES

MAXIMUM
MAX

Frequency, MHz	Bit Rate, MBps	1-st trace, dBm	2-nd trace, dBm	Peak excursion, dB	Limit, dB	Margin, dB	Verdict
Low channe	l Band Edge						
5730	3.25	19.42	13.99	5.43	13.0	-7.57	Pass
5730	32.5	18.31	13.57	4.74	13.0	-8.26	Pass
Mid channel				-		-	
5775	3.25	20.24	15.54	4.70	13.0	-8.30	Pass
5775	32.5	18.76	14.35	4.41	13.0	-8.59	Pass
High channe	High channel Band Edge						
5820	3.25	17.88	13.13	4.75	13.0	-8.25	Pass
5820	32.5	17.56	12.8	4.76	13.0	-8.24	Pass

# Reference numbers of test equipment used

_						
ſ	HL 2952	HL 3435	HL 3437	HL 3818		

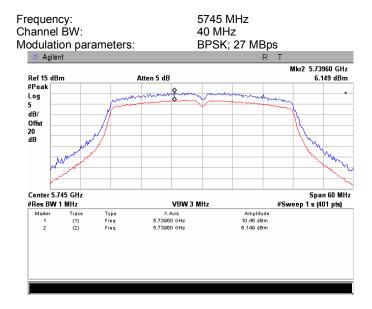
Full description is given in Appendix A.



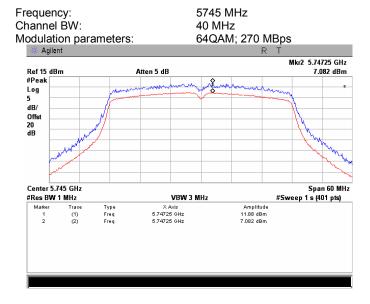


Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/25/2009	verdict.	FASS		
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC		
Remarks: EUT with 6 dBi antenna assembly gain					

Plot.7.2.1 Peak excursion measurement



Plot.7.2.2 Peak excursion measurement

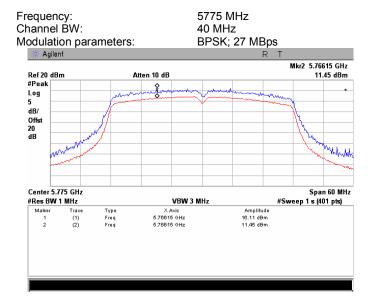




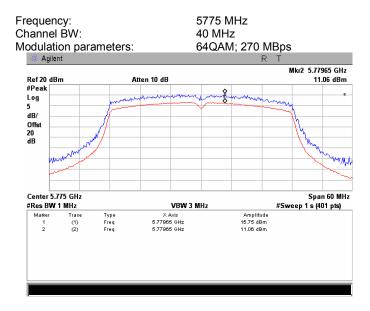


Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/25/2009	verdict.	PASS		
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC		
Remarks: EUT with 6 dBi antenna assembly gain					

Plot.7.2.3 Peak excursion measurement



Plot.7.2.4 Peak excursion measurement

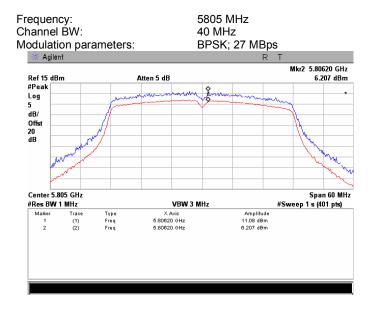




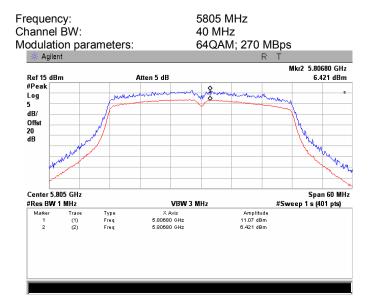


Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/25/2009	verdict.	FASS		
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC		
Remarks: EUT with 6 dBi antenna assembly gain					

Plot.7.2.5 Peak excursion measurement



Plot.7.2.6 Peak excursion measurement

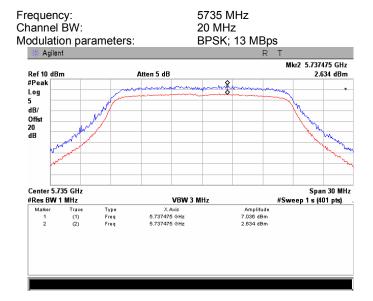




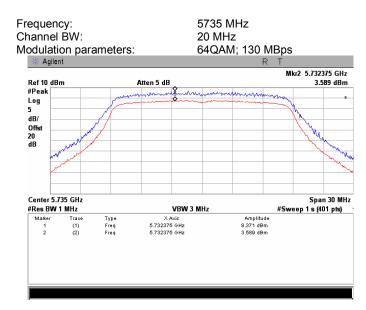


Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/25/2009	verdict.	FASS		
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC		
Remarks: EUT with 6 dBi antenna assembly gain					

Plot.7.2.7 Peak excursion measurement



Plot.7.2.8 Peak excursion measurement

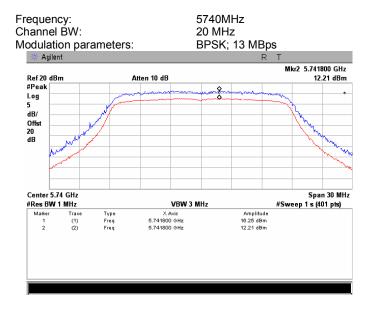




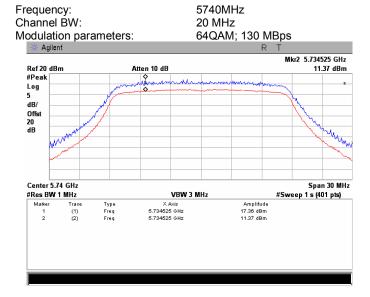


Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/25/2009	verdict.	PASS		
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC		
Remarks: EUT with 6 dBi antenna assembly gain					

Plot.7.2.9 Peak excursion measurement



Plot.7.2.10 Peak excursion measurement

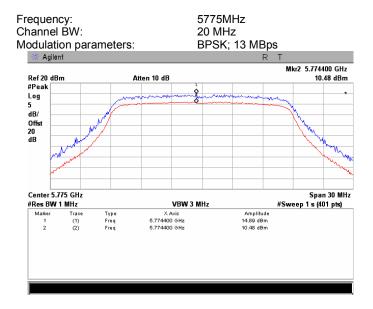




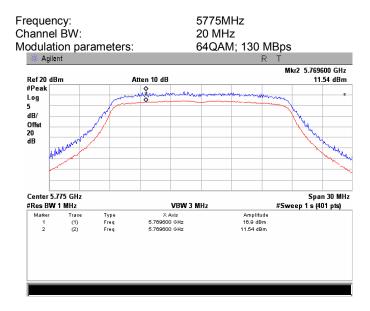


Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/25/2009	verdict.	FASS		
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC		
Remarks: EUT with 6 dBi antenna assembly gain					

Plot.7.2.11 Peak excursion measurement



Plot.7.2.12 Peak excursion measurement

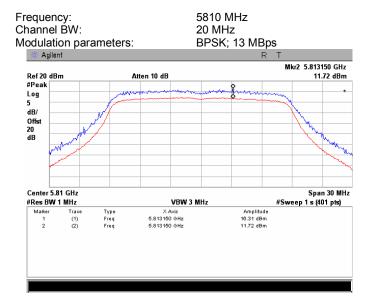




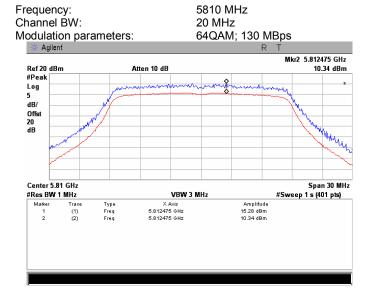


Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power				
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A			
Test mode:	Compliance	Verdict:	PASS		
Date:	3/25/2009	verdict.	FASS		
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC		
Remarks: EUT with 6 dBi antenna assembly gain					

Plot.7.2.13 Peak excursion measurement



Plot.7.2.14 Peak excursion measurement

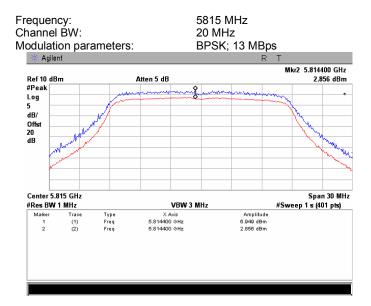




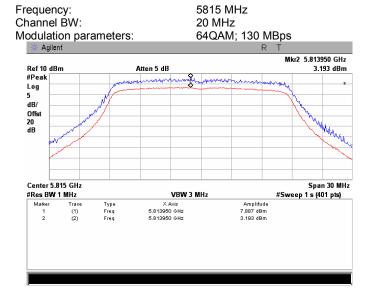


Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power				
Test procedure:	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict:	PASS		
Date:	3/25/2009	verdict.	FASS		
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC		
Remarks: EUT with 6 dBi a	antenna assembly gain		-		

Plot.7.2.15 Peak excursion measurement



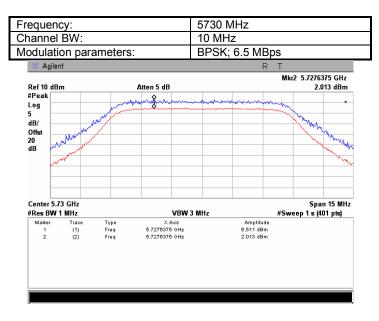
Plot.7.2.16 Peak excursion measurement





Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power			
Test procedure:	FCC Public Notice DA 02-21	38, Appendix A		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/25/2009	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC	
Remarks: EUT with 6 dBi	antenna assembly gain			

Plot 7.2.17 Peak excursion measurement



Plot 7.2.18 Peak excursion measurement

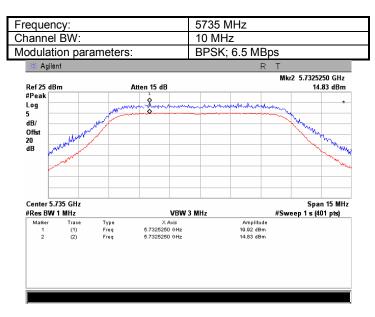
equency:			5730 MHz	
nannel BW	<i>l</i> :		10 MHz	
odulation	parameters	s: (	64QAM; 65 MB	ps
# Agilent			R	Т
Ref 10 dBm		Atten 5 dB		Mkr2 5.7317625 GHz 2.527 dBm
#Peak Log 5 6B/ Offst 20 dB	American Control of the Control of t		Marka Andrew Grant Communication	Melhan
Center 5.73 GH #Res BW 1 MH	_	VBW 3 N	IHz	Span 15 MHz #Sweep 1 s (401 pts)
Marker Tra 1 (1 2 (2	nce Type I) Freq	X Axis 5.7317625 9Hz 5.7317625 9Hz	Amplitude 7.226 dBm 2.527 dBm	



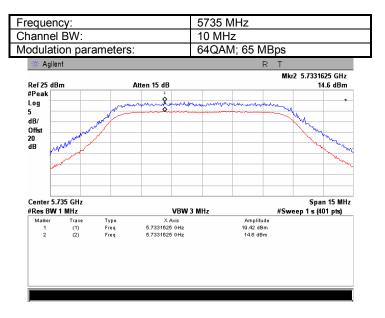


Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power			
Test procedure:	FCC Public Notice DA 02-21	38, Appendix A		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/25/2009	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC	
Remarks: EUT with 6 dBi	antenna assembly gain			

Plot 7.2.19 Peak excursion measurement



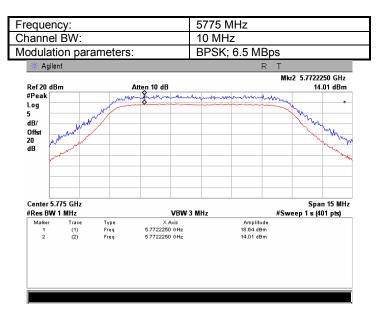
Plot 7.2.20 Peak excursion measurement





Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power			
Test procedure:	FCC Public Notice DA 02-21	38, Appendix A		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/25/2009	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC	
Remarks: EUT with 6 dBi	antenna assembly gain			

Plot 7.2.21 Peak excursion measurement



Plot 7.2.22 Peak excursion measurement

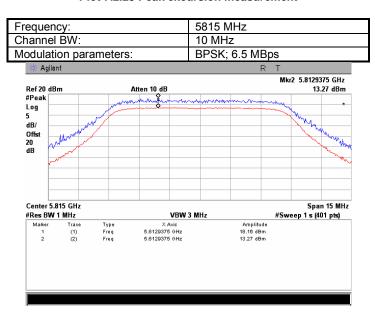
equency:		5775 MHz	
hannel BW:		10 MHz	
odulation para	ameters:	64QAM; 65 MBps	
★ Agilent		R T	
Ref 20 dBm	Atten 10 dB	Mkr2	5.7736875 GHz 13.56 dBm
#Peak Log 5 5 dB/ Offst 20 dB	A Marine San Contraction of the		What was a fine of the second
Center 5.775 GHz #Res BW 1 MHz	VBW	3 MHz #Swee	Span 15 MHz ep 1 s (401 pts)
Marker Trace 1 (1) 2 (2)	Type X Axis Freq 5.7736875 GHz Freq 5.7736875 GHz	Amplitude 18.27 dBm 13.56 dBm	





Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power		
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2009	verdict.	FASS
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC
Remarks: EUT with 6 dBi	antenna assembly gain		

Plot 7.2.23 Peak excursion measurement



Plot 7.2.24 Peak excursion measurement

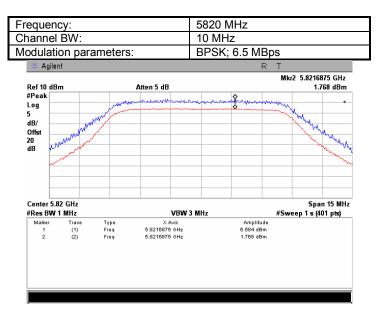
		5815 MHz	
V:		10 MHz	<del></del>
parameters	: (	64QAM; 65 MBps	
		R T	
	Atten 10 dB	M	kr2 5.8130125 GHz 13.19 dBm
WWW.			The state of the s
Hz 7	VRW 3 N	IHz #Su	Span 15 MHz veep 1 s (401 pts)
ace Type 1) Freq 2) Freq	X Axis 5.8130125 9Hz 5.8130125 9Hz	Amplitude 17.88 dBm 13.19 dBm	
	parameters  Hz z z coc Type 1) Freq	Atten 10 dB  Atten 10 dB  Lace Type X Axis  Type 5.8130126 0Hz  Axis 5.8130126 0Hz	Parameters: 64QAM; 65 MBps  R T  MI  Atten 10 dB  Hz  z  VBW 3 MHz  #Sv  Amplitude #Sv





Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power			
Test procedure:	FCC Public Notice DA 02-213	8, Appendix A		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/25/2009	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC	
Remarks: EUT with 6 dBi a	antenna assembly gain			

Plot 7.2.25 Peak excursion measurement



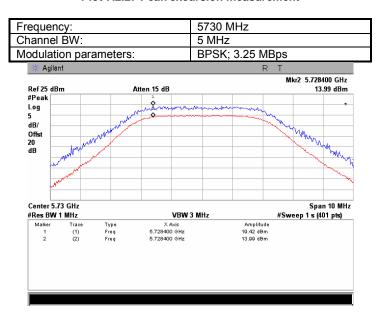
Plot 7.2.26 Peak excursion measurement

Frequency: 5820 MHz Channel BW: 10 MHz Modulation parameters: 64QAM; 65 ME	
Modulation parameters: 640AM: 65 ME	
iviodulation parameters.   04QAIVI, 05 IVI	3ps
★ Agilent R	Т
Ref 10 dBm Atten 5 dB	Mkr2 5.8215375 GHz 1.763 dBm
#Peak Log 5 dB/ Offst 20 dB	Manual Ma
Center 5.82 GHz #Res BW 1 MHz VBW 3 MHz	Span 15 MHz #Sweep 1 s (401 pts)
#RKSS DW 1 MHZ	



Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power			
Test procedure:	FCC Public Notice DA 02-21	38, Appendix A		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/25/2009	verdict.	PASS	
Temperature: 24 °C	Air Pressure: 1011 hPa	Relative Humidity: 44 %	Power Supply: 120 VAC	
Remarks: EUT with 6 dBi	antenna assembly gain			

Plot 7.2.27 Peak excursion measurement



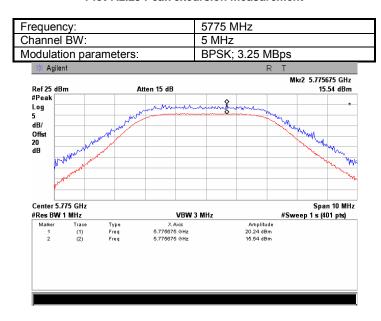
Plot 7.2.28 Peak excursion measurement

	۸.		5730 MHz	,
requenc hannel l			5 MHz	-
		-1		0.5.140
lodulatio	n param	ieters:	64QAM; 3	2.5 MBps
# Agilent				R T
Ref 20 dBm	ı	Atten 10 dB		Mkr2 5.729275 GHz 13.57 dBm
#Peak Log		The same of the sa	and the same of th	13.37 dSill
5		Jan Market		The state of the s
dB/ Offst	pode Wight Vid	~/		and my way and want on
20 dB	~~~ " WW.			The state of the s
ub //~	A Prince			100
New York	, M.			The state of the s
·				
Center 5.73	GH <sub>7</sub>			Span 10 MHz
#Res BW 1		VI	BW 3 MHz	#Sweep 1 s (401 pts)
Marker		Type X Axis		mplitude
1 2		Freq 5.729275 G Freq 5.729275 G		.31 dBm .57 dBm



Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power					
Test procedure:	FCC Public Notice DA 02-213	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS				
Date:	3/25/2009	T Verdict: PASS				
Temperature: 24 °C	Air Pressure: 1011 hPa Relative Humidity: 44 % Power Supply: 120 VAC					
Remarks: EUT with 6 dBi antenna assembly gain						

Plot 7.2.29 Peak excursion measurement



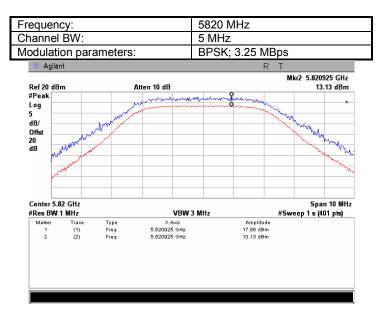
Plot 7.2.30 Peak excursion measurement

requency:	57	75 MHz
Channel BW:	5 N	ИНZ
Modulation paramet	ers: 640	QAM; 32.5 MBps
* Agilent		R T
Ref 25 dBm	Atten 15 dB	Mkr2 5.773875 GHz 14.35 dBm
#Peak Log 5	1	and the same of th
dB/ Offst 20 dB		A STANDARD AND A STANDARD A STANDARD AND A STANDARD A STANDARD A STANDARD AND A STANDARD A STANDARD AND A STANDARD A STANDARD A STANDARD A ST
WANTER WATER TO THE STATE OF TH		W. J. W. J. W. J. W.
Center 5.775 GHz #Res BW 1 MHz	VBW 3 MHz	Span 10 MHz #Sweep 1 s (401 pts)
Marker Trace Type 1 (1) Freq 2 (2) Freq	X Axis 5.773875 GHz 5.773875 GHz	Amplitude 18,76 dBm 14,35 dBm



Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power					
Test procedure:	FCC Public Notice DA 02-21	FCC Public Notice DA 02-2138, Appendix A				
Test mode:	Compliance	Verdict: PASS				
Date:	3/25/2009					
Temperature: 24 °C	Air Pressure: 1011 hPa Relative Humidity: 44 % Power Supply: 120 VAC					
Remarks: EUT with 6 dBi antenna assembly gain						

Plot 7.2.31 Peak excursion measurement



Plot 7.2.32 Peak excursion measurement

requency:		5820 MHz				
Channel BW:		5 MHz				
Modulation param	eters:	64QAM; 32.5 MBps				
* Agilent		R T				
Ref 20 dBm	Atten 10 dB	Mk	r2 5.820550 GHz 12.8 dBm			
#Peak Log 55 dB/ Offst 20 dB	A Company of the Comp	Δ	Mary way way water safe			
Center 5.82 GHz	VDW	3 MHz #Swe	Span 10 MHz			
1 (1)	Type X.Adis Freq 5.820590 GHz Freq 5.820590 GHz	Amplitude 17.56 dBm 12.8 dBm	ep 1 s (401 pts)			



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions					
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4					
Test mode:	Compliance	Verdict:	PASS			
Date:	3/22/2009	Verdict. PASS				
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 % Power Supply: 120 VAC				
Remarks:						

# 7.3 Field strength of spurious emissions

## 7.3.1 General

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

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

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

<sup>\*-</sup> 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.

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

Operating frequency band, GHz	EIRP of spurious, dBm/MHz	Field strength at 3 m, dB(μV/m)
5725 - 5825	-27 (below 5.715 GHz and above 5.835 GHz)	68.23
5725 - 5625	-17 (in 5.715 - 5.725 GHz and 5.825 - 5.835 GHz)	78.23

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

- 7.3.2.1 The EUT was set up as shown in Figure 7.3.1, energized and the performance check was conducted.
- **7.3.2.2** The specified frequency range was investigated with antenna connected to spectrum analyzer/ EMI receiver. To find maximum radiation the turntable was rotated 360<sup>0</sup> and the measuring antenna was rotated around its vertical axis.
- 7.3.2.3 The worst test results (the lowest margins) were recorded and shown in the associated plots.

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

- 7.3.3.1 The EUT was set up as shown in Figure 7.3.2, energized and the performance check was conducted.
- 7.3.3.2 The specified frequency range was investigated with antenna connected to spectrum analyzer/ EMI receiver. To find maximum radiation the turntable was rotated 360°, the measuring antenna height was changed from 1 to 4 m, its polarization was switched from vertical to horizontal.
- **7.3.3.3** The worst test results (the lowest margins) were recorded and shown in the associated plots.

<sup>\*\*-</sup> The limit decreases linearly with the logarithm of frequency.

<sup>\*\*\* -</sup> 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.





Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions					
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4					
Test mode:	Compliance	Verdict: PASS				
Date:	3/22/2009	- Verdict: PASS				
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC			
Remarks:						

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

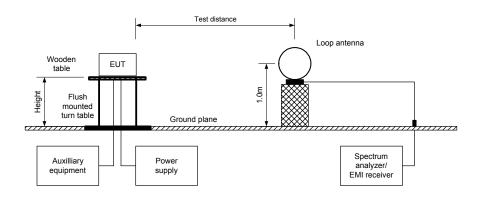
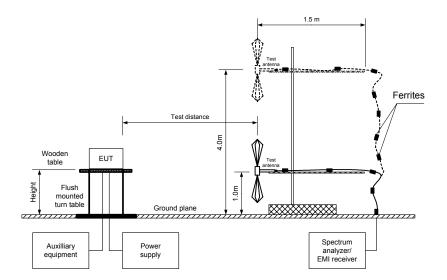


Figure 7.3.2 Setup for spurious emission field strength measurements above 30 MHz







Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions						
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4					
Test mode:	Compliance	Verdict: PASS					
Date:	3/22/2009	Verdict. PASS					
Temperature: 24°C	Air Pressure: 1013 hPa	Air Pressure: 1013 hPa Relative Humidity: 47 % Power Supply: 120 VAC					
Remarks: EUT with 22.5 dBi antenna assembly gain							

## Table 7.3.3 Field strength of spurious emissions below 1 GHz

ASSIGNED FREQUENCY RANGE: 5725 - 5825 MHz
INVESTIGATED FREQUENCY RANGE: 0.009 - 1000 MHz
TEST SITE Semi Anechoic Chamber

TEST DISTANCE: 3 m

MODULATION: OFDM, 64QAM BIT RATE: 65 Mbps DUTY CYCLE: 100 % TRANSMITTER OUTPUT POWER Maximum

RESOLUTION BANDWIDTH: 1.0 kHz (9 kHz – 150 kHz) 9.0 kHz (150 kHz – 30 MHz)

VIDEO BANDWIDTH:

VIDEO BANDWIDTH:

TEST ANTENNA TYPE:

Active loop (9 kHz – 30 MHz)

Biconilog (30 MHz – 1000 MHz)

Double ridged guide (above 1000 MHz)

		Quas	i-peak dB(µV/m	)	3 3 3 1 (3		Turntable	
Frequency, MHz	Peak, dΒ(μV/m)	Measured emission, dB(μV/m)	Limit, dB(µV/m)	Margin, dB*	Antenna polariz.	Antenna height, m	position**, degrees	Verdict
Low channel	5735 MHz							
37.537375	34.82	31.51	40.00	-8.49	Vertical	1.0	81	
110.810000	35.21	30.93	43.50	-12.57	Vertical	1.0	89	
Mid channel	5775 MHz							
37.537375	35.10	31.32	40.00	-8.68	Vertical	1.0	81	Pass
110.810000	35.32	30.83	43.50	-12.67	Vertical	1.0	89	
High channel 5815 MHz								
37.552500	33.03	28.76	40.00	-11.24	Vertical	1.0	81	
110.810000	35.10	30.82	43.50	-12.68	Vertical	1.0	89	

<sup>\*-</sup> Margin = Measured emission - specification limit.

## Reference numbers of test equipment used

HL 0446	HL 0521	HL 0604	HL 3123	HL 3616		

Full description is given in Appendix A.

<sup>\*\*-</sup> EUT front panel refers to 0 degrees position of turntable.



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions					
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4				
Test mode:	Compliance	Verdict: PASS				
Date:	3/22/2009	Verdict. PASS				
Temperature: 24°C	Air Pressure: 1013 hPa Relative Humidity: 47 % Power Supply: 120 VAC					
Remarks: EUT with 22.5 dBi antenna assembly gain						

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

ASSIGNED FREQUENCY RANGE: 5725 - 5825 MHz INVESTIGATED FREQUENCY RANGE: 1000 - 40000 MHz **TEST SITE** Semi Anechoic Chamber

TEST DISTANCE:

3 m MODULATION: OFDM, 64QAM BIT RATE: 65 Mbps DUTY CYCLE: 100 %

Maximum (Power setting 19.0) TRANSMITTER OUTPUT POWER

RESOLUTION BANDWIDTH: 1000 kHz

VIDEO BANDWIDTH: > Resolution bandwidth

**TEST ANTENNA TYPE:** Double ridged guide (above 1000 MHz)

	Peak, dB(μV/m)		Ave	rage dB(µV/ı	n)			Turnt		
Frequency, MHz	Measured emission, dB(µV/m)	Limit, dB(μV/m)	Margin, dB*	Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*	Ant. polariz.	Ant. height, m	able posit ion**, degr ees	Verdict
Low channel 5735 MHz										
5062.610	57.73	74.0	-16.27	44.60	54.0	-9.40	Vert	1.0	0	
11470.00	55.94	74.0	-18.06	43.13	54.0	-10.87	Vert	1.0	0	
22938.65	53.58	74.0	-20.42	37.40	54.0	-16.60	Hor	1.0	80	
Mid channel 5775 MHz										
5064.625	58.75	74.0	-15.25	45.33	54.0	-8.67	Vert	1.0	0	Pass
11549.90	57.20	74.0	-16.80	45.70	54.0	-8.30	Vert	1.0	0	
23101.05	54.50	74.0	-19.50	39.62	54.0	-14.38	Hor	1.0	90	
High channel 5815 MHz										
5062.805	57.82	74.0	-16.18	45.35	54.0	-8.65	Vert	1.0	0	
11630.00	56.11	74.0	-17.89	43.99	54.0	-10.01	Vert	1.0	0	

<sup>\*-</sup> Margin = Measured emission - specification limit.

Table 7.3.5 Restricted bands

MHz	MHz	MHz	MHz	MHz	GHz
0.09 - 0.11	8.37625 - 8.38675	73 - 74.6	399.9 - 410	2690 - 2900	10.6 - 12.7
0.495 - 0.505	8.41425 - 8.41475	74.8 - 75.2	608 - 614	3260 - 3267	13.25 - 13.4
2.1735 - 2.1905	12.29 - 12.293	108 - 121.94	960 - 1240	3332 - 3339	14.47 - 14.5
4.125 - 4.128	12.51975 - 12.52025	123 - 138	1300 - 1427	3345.8 - 3358	15.35 - 16.2
4.17725 - 4.17775	12.57675 - 12.57725	149.9 - 150.05	1435 - 1626.5	3600 - 4400	17.7 - 21.4
4.20725 - 4.20775	13.36 - 13.41	156.52475 - 156.52525	1645.5 - 1646.5	4500 - 5150	22.01 - 23.12
6.215 - 6.218	16.42 - 16.423	156.7 - 156.9	1660 - 1710	5350 - 5460	23.6 - 24
6.26775 - 6.26825	16.69475 - 16.69525	162.0125 - 167.17	1718.8 - 1722.2	7250 - 7750	31.2 - 31.8
6.31175 - 6.31225	16.80425 - 16.80475	167.72 - 173.2	2200 - 2300	8025 – 8500	36.43 - 36.5
8.291 - 8.294	25.5 - 25.67	240 - 285	2310 - 2390	9000 - 9200	Above 38.6
8.362 - 8.366	37.5 - 38.25	322 - 335.4	2483.5 - 2500	9300 - 9500	ADOVE 30.0

Reference numbers of test equipment used

		1 m. b					
HL 0446	HL 0521	HL 0604	HL 0768	HL 0769	HL 1424	HL 1984	HL 2387
HL 2870	HL 2871	HL 2909	HL 2953	HL 3535	HL 3616	HL 3883	HL 3901

Full description is given in Appendix A.

<sup>\*\*-</sup> EUT front panel refers to 0 degrees position of turntable.





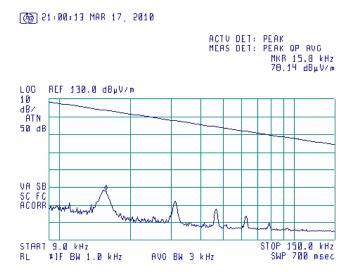
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions				
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
Test mode:	Compliance	Verdict: PASS			
Date:	3/22/2009	Verdict: PASS			
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC		
Remarks: EUT with 22.5 dBi antenna assembly gain					

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

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

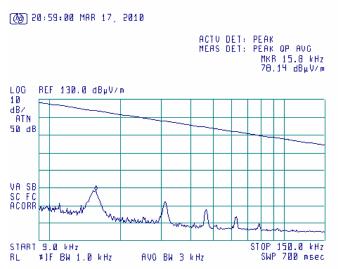
ANTENNA POLARIZATION: Vertical and Horizontal



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

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m







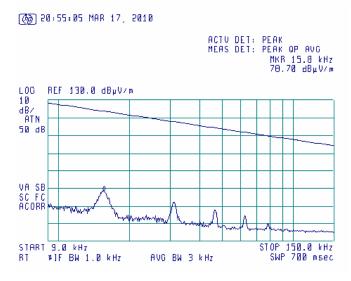
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions				
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4				
Test mode:	Compliance	Verdict: PASS			
Date:	3/22/2009	- Verdict: PASS			
Temperature: 24°C Air Pressure: 1013 hPa Relative Humidity: 47 % Power Supply: 120 V.					
Remarks: EUT with 22.5 dBi antenna assembly gain					

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

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

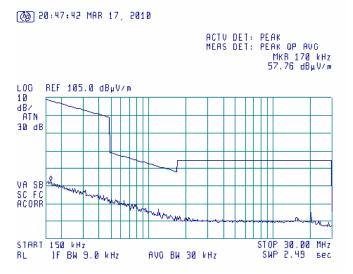
ANTENNA POLARIZATION: Vertical and Horizontal



Plot 7.3.4 Radiated emission measurements from 0.15 MHz to 30 MHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m





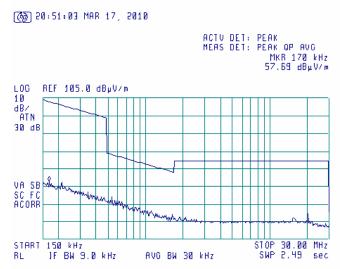
Test specification:		FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
Test mode:	Compliance	Verdict: PASS			
Date:	3/22/2009	- Verdict: PASS			
Temperature: 24°C Air Pressure: 1013 hPa Relative Humidity: 47 % Power Supply			Power Supply: 120 VAC		
Remarks: EUT with 22.5 dBi antenna assembly gain					

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

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

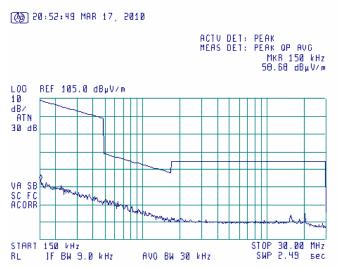
ANTENNA POLARIZATION: Vertical and Horizontal



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

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m





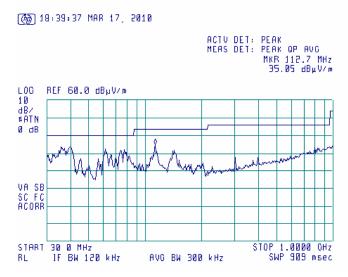
Test specification:		FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
Test mode:	Compliance	Verdict: PASS			
Date:	3/22/2009	- Verdict: PASS			
Temperature: 24°C Air Pressure: 1013 hPa Relative Humidity: 47 % Power Supply			Power Supply: 120 VAC		
Remarks: EUT with 22.5 dBi antenna assembly gain					

Plot 7.3.7 Radiated emission measurements from 30 MHz to 1000 MHz at the low carrier frequency

TEST SITE: Semi Anechoic chamber

TEST DISTANCE: 3 m

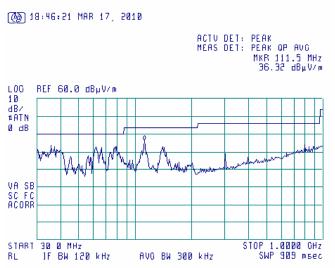
ANTENNA POLARIZATION: Vertical and Horizontal



Plot 7.3.8 Radiated emission measurements from 30 MHz to 1000 MHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m





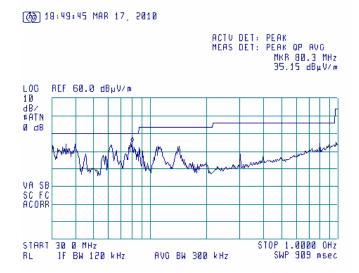


Test specification:		FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
Test mode:	Compliance	Verdict: PASS			
Date:	3/22/2009	- Verdict: PASS			
Temperature: 24°C Air Pressure: 1013 hPa Relative Humidity: 47 % Power Supply			Power Supply: 120 VAC		
Remarks: EUT with 22.5 dBi antenna assembly gain					

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

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m





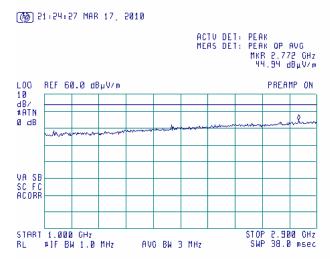
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.3.10 Radiated emission measurements from 1.0 to 2.9 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit

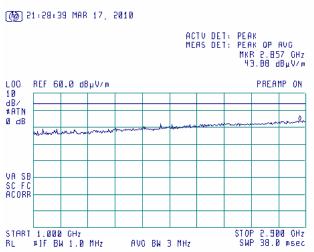


Plot 7.3.11 Radiated emission measurements from 1.0 to 2.9 GHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Peak under average limit







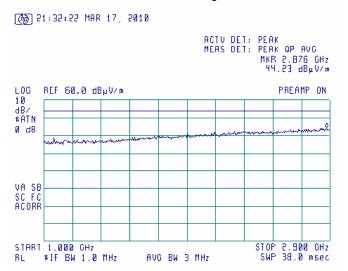
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict. PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.3.12 Radiated emission measurements from 1.0 to 2.9 GHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit





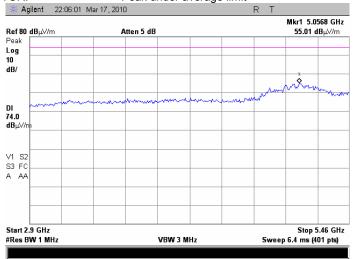
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.3.13 Radiated emission measurements from 2.9 to 5.46 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit

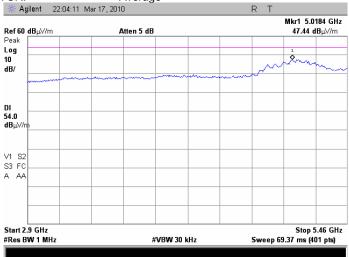


Plot 7.3.14 Radiated emission measurements from 2.9 to 5.46 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	verdict.	FASS	
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

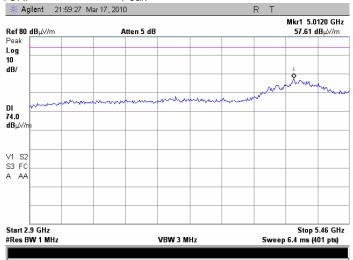
Plot 7.3.15 Radiated emission measurements from 2.9 to 5.46 GHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

DETECTOR: Peak

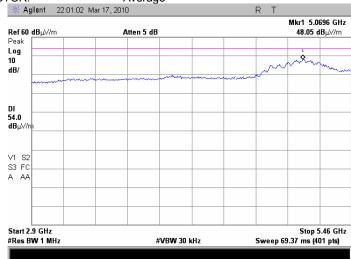


Plot 7.3.16 Radiated emission measurements from 2.9 to 5.46 GHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

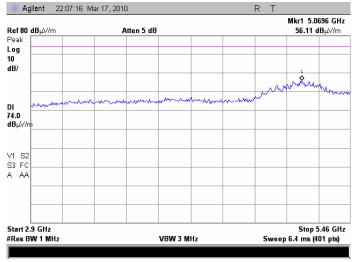
Plot 7.3.17 Radiated emission measurements from 2.9 to 5.46 GHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

DETECTOR: Peak

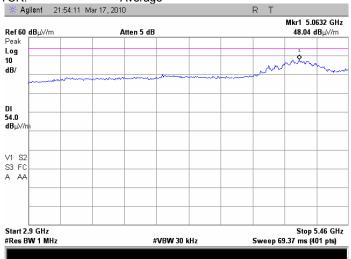


Plot 7.3.18 Radiated emission measurements from 2.9 to 5.46 GHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





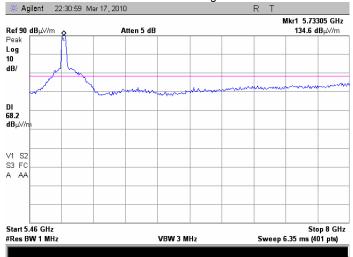
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.3.19 Radiated emission measurements from 5.46 to 8 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit

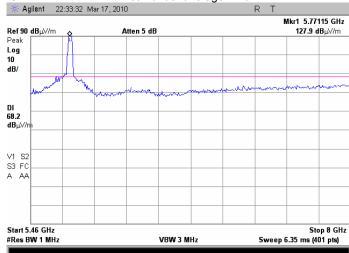


Plot 7.3.20 Radiated emission measurements from 5.46 to 8 GHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit







Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict. PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

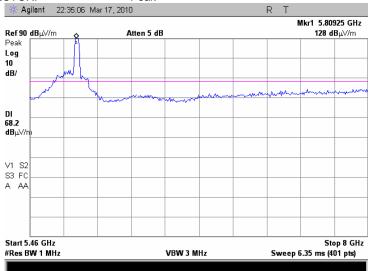
Plot 7.3.21 Radiated emission measurements from 5.46 to 8 GHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

DETECTOR: Peak





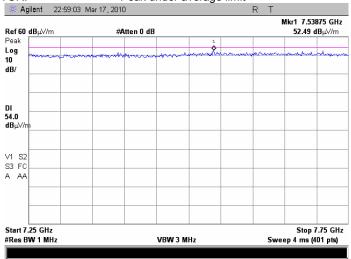
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	verdict.	FASS	
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.3.22 Radiated emission measurements from 7.25 to 7.75 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit

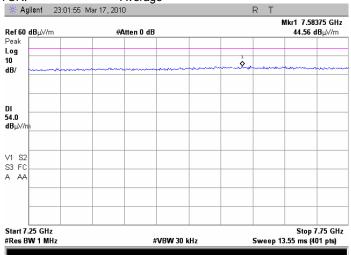


Plot 7.3.23 Radiated emission measurements from 7.25 to 7.75 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





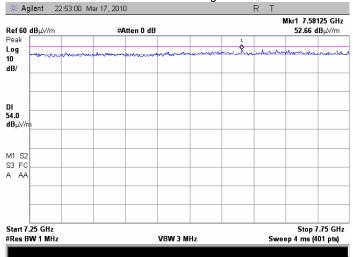
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.3.24 Radiated emission measurements from 7.25 to 7.75 GHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit

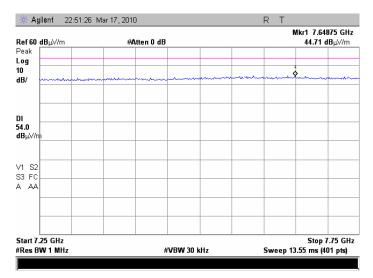


Plot 7.3.25 Radiated emission measurements from 7.25 to 7.75 GHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





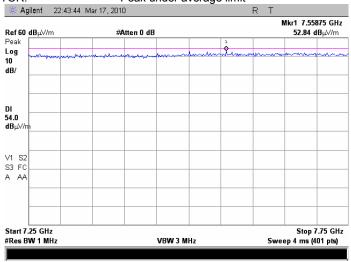
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict. PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.3.26 Radiated emission measurements from 7.25 to 7.75 GHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit

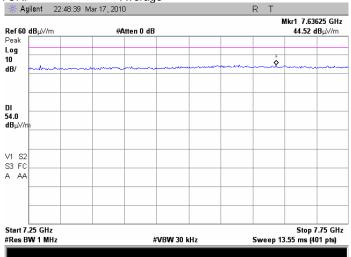


Plot 7.3.27 Radiated emission measurements from 7.25 to 7.75 GHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

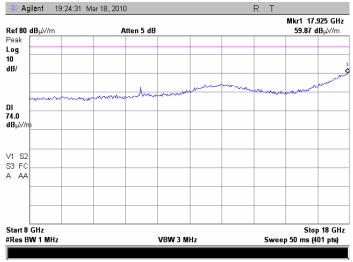
Plot 7.3.28 Radiated emission measurements from 8 to 18 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

DETECTOR: Peak

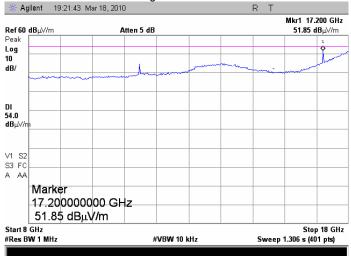


Plot 7.3.29 Radiated emission measurements from 8 to 18 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





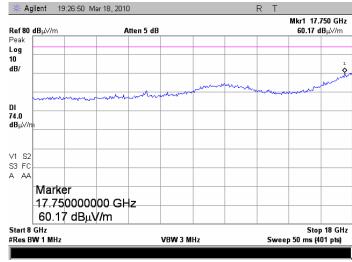
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

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

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

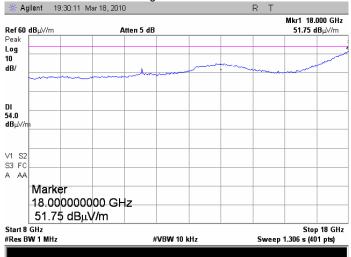
DETECTOR: Peak



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

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





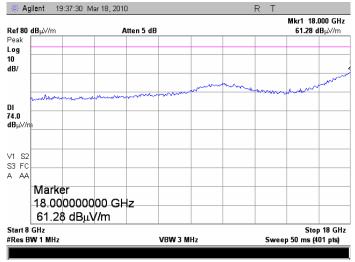
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

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

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

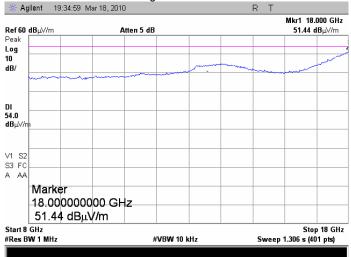
DETECTOR: Peak



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

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal



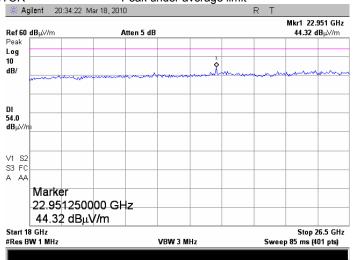


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2009	verdict.	PASS
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.3.34 Radiated emission measurements from 18 to 26.5 GHz at the low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

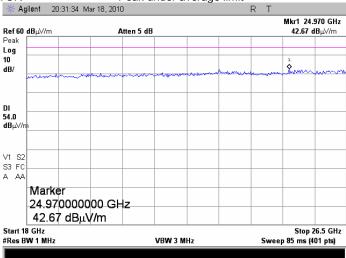
ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR Peak under average limit



Plot 7.3.35 Radiated emission measurements from 18 to 26.5 GHz at the mid carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR Peak under average limit





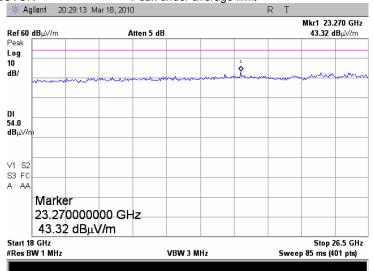


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict. PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.3.36 Radiated emission measurements from 18 to 26.5 GHz at the high carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR Peak under average limit



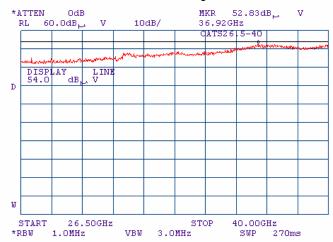


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.3.37 Radiated emission measurements from 26.5 to 40 GHz at the low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

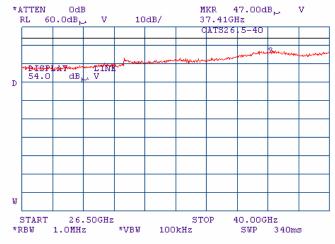
ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR Peak under average limit



Plot 7.3.38 Radiated emission measurements from 26.5 to 40 GHz at the low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal



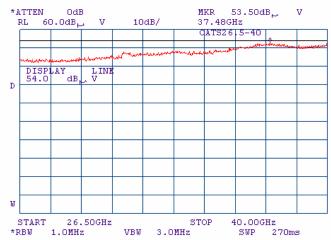


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.3.39 Radiated emission measurements from 26.5 to 40 GHz at the mid carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

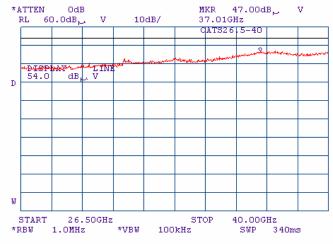
ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR Peak under average limit



Plot 7.3.40 Radiated emission measurements from 26.5 to 40 GHz at the mid carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal



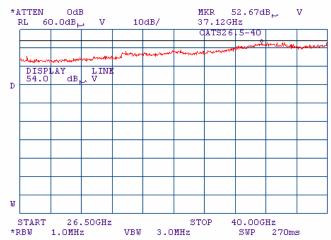


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2009	Verdict: PASS	
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

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

TEST SITE: OATS TEST DISTANCE: 3 m

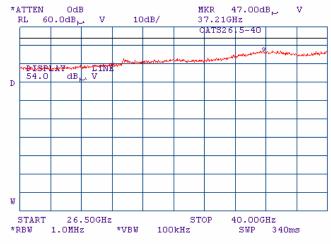
ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR Peak under average limit



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

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal



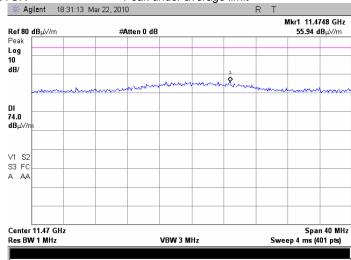


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

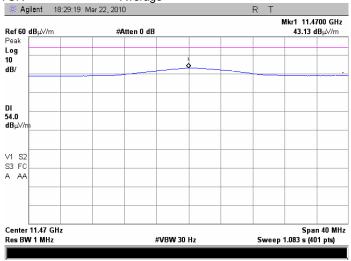
Plot 7.3.43 Radiated emission measurements at the second harmonic of low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit



Plot 7.3.44 Radiated emission measurements at the second harmonic of low carrier frequency

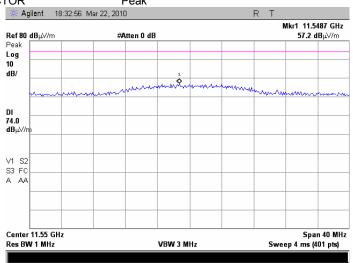




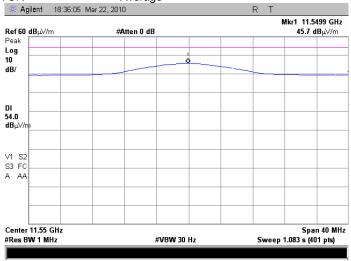
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

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

TEST SITE: OATS
TEST DISTANCE: 3 m
DETECTOR Peak



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



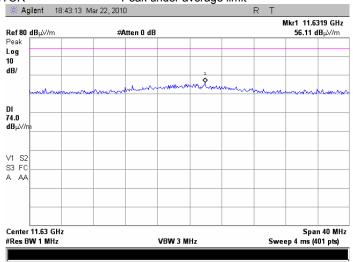


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

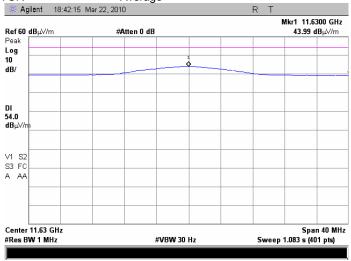
Plot 7.3.47 Radiated emission measurements at the second harmonic of high carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit



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



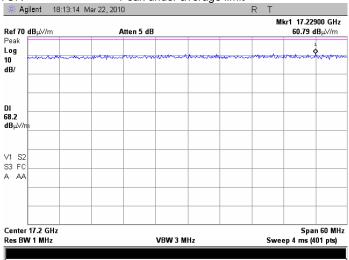


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

Plot 7.3.49 Radiated emission measurements at third harmonic of low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

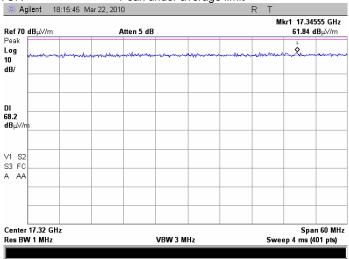
DETECTOR Peak under average limit



Plot 7.3.50 Radiated emission measurements at the third harmonic of the mid carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit





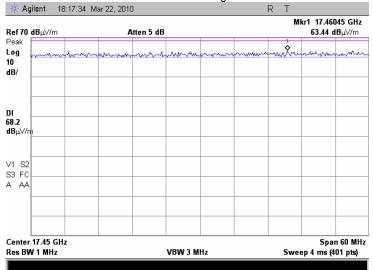


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

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

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit



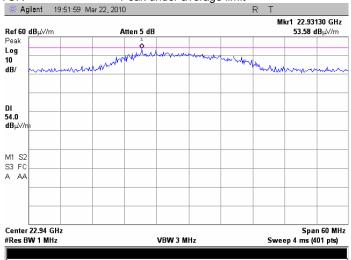


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 22.5 dBi antenna assembly gain				

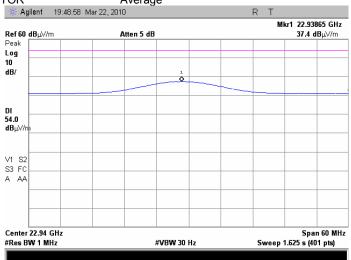
Plot 7.3.52 Radiated emission measurements at the forth harmonic of low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit



Plot 7.3.53 Radiated emission measurements at the forth harmonic of low carrier frequency



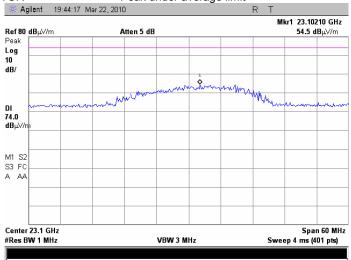


Test specification:		FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions					
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/22/2009	verdict.	PASS				
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC				
Remarks: EUT with 22.5 dBi antenna assembly gain							

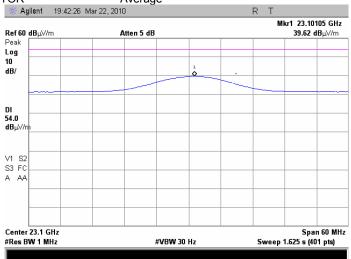
Plot 7.3.54 Radiated emission measurements at the forth harmonic of the mid carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit



Plot 7.3.55 Radiated emission measurements at the forth harmonic of the mid carrier frequency





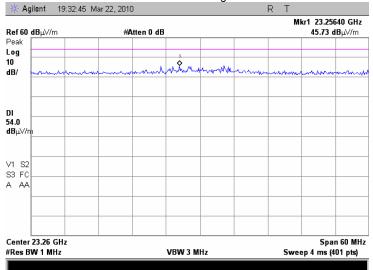


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions							
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4						
Test mode:	Compliance	Verdict:	PASS					
Date:	3/22/2009	verdict.	PASS					
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC					
Remarks: EUT with 22.5 dBi antenna assembly gain								

Plot 7.3.56 Radiated emission measurements at the forth harmonic of high carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit







Test specification:		FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions					
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/22/2009	verdict.	PASS				
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC				
Remarks: EUT with 27.9 dBi antenna assembly gain							

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

ASSIGNED FREQUENCY RANGE: 5725 - 5825 MHz
INVESTIGATED FREQUENCY RANGE: 0.009 - 1000 MHz
TEST SITE Semi Anechoic Chamber

TEST DISTANCE: 3 m

MODULATION: OFDM, 64QAM BIT RATE: 65 Mbps DUTY CYCLE: 100 %

TRANSMITTER OUTPUT POWER
RESOLUTION BANDWIDTH:

Maximum (Power setting 16.0)
1.0 kHz (9 kHz – 150 kHz)
9.0 kHz (150 kHz – 30 MHz)
120 kHz (30 MHz – 1000 MHz)

VIDEO BANDWIDTH: > Resolution bandwidth
TEST ANTENNA TYPE: Active loop (9 kHz – 30 MHz)
Biconilog (30 MHz – 1000 MHz)

		Quas	i-peak dB(μV/m	)		,	Turntable	
Frequency, MHz	Peak, dΒ(μV/m)	/ I			Antenna height, m	position**, degrees	Verdict	
Low channel	5735 MHz							
37.551000	26.12	22.57	40.00	-17.43	Vertical	1.0	81	
110.775850	31.78	27.08	43.50	-16.42	Vertical	1.0	87	
170.274650	26.17	22.38	43.50	-21.12	Vertical	1.0	89	
Mid channel	5775 MHz							
37.542375	27.20	23.88	40.00	-16.12	Vertical	1.0	81	Pass
110.775850	31.73	27.12	43.50	-16.38	Vertical	1.0	87	1 055
170.274650	26.80	22.45	43.50	-21.05	Vertical	1.0	89	
High channel	5815 MHz							
37.542375	27.38	23.65	40.00	-16.35	Vertical	1.0	81	
110.775850	31.37	27.14	43.50	-16.36	Vertical	1.0	87	
170.274650	26.61	22.45	43.50	-21.05	Vertical	1.0	89	

<sup>\*-</sup> Margin = Measured emission – specification limit.

Reference numbers of test equipment used

Reference numbers of test equipment used											
HL 0446	HL 0521	HL 0604	HL 3123	HL 3616							

Full description is given in Appendix A.

<sup>\*\*-</sup> EUT front panel refers to 0 degrees position of turntable.





Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions							
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4						
Test mode:	Compliance	Verdict:	PASS					
Date:	3/22/2009	verdict.	PASS					
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC					
Remarks: EUT with 27.9 dBi antenna assembly gain								

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

ASSIGNED FREQUENCY RANGE: 5725 - 5825 MHz
INVESTIGATED FREQUENCY RANGE: 1000 - 40000 MHz
TEST SITE Semi Anechoic Chamber

TEST DISTANCE: 3 m

MODULATION:

BIT RATE:

CT DUTY CYCLE:

TRANSMITTER OUTPUT POWER

RESOLUTION BANDWIDTH:

OFDM, 64QAM
65 Mbps
100 %
Maximum
1000 kHz

VIDEO BANDWIDTH: > Resolution bandwidth

TEST ANTENNA TYPE: Double ridged guide (above 1000 MHz)

							0 (0.00.00.0	, , ,		
	Pea	ak, dB(µV/m)		Aver	age dB(µV/n	1)		Ant.	Turntable	
Frequency, MHz	Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*	Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*	Ant. polariz.	height, m	position**, degrees	Verdict
Low channe	l 5735 MHz									
5031.260	59.10	74.0	-14.90	46.00	54.0	-8.00	Vertical	1.0	0	
11470.30	59.37	74.0	-14.63	47.17	54.0	-6.83	Vertical	1.0	0	
22927.60	63.10	74.0	-10.90	46.24	54.0	-7.76	Vertical	1.1	0	
Mid channe	5775 MHz								-	
5029.955	58.90	74.0	-15.10	46.10	54.0	-7.90	Vertical	1.0	0	Pass
11549.90	54.51	74.0	-19.49	45.62	54.0	-8.38	Vertical	1.0	0	
23100.45	61.62	74.0	-12.38	45.88	54.0	-8.12	Horizon.	1.0	0	
High channe	el 5815 MHz									
5029.705	59.30	74.0	-14.70	46.00	54.0	-8.00	Vertical	1.0	0	
11629.90	54.04	74.0	-19.96	41.71	54.0	-12.29	Vertical	1.0	0	

<sup>\*-</sup> Margin = Measured emission – specification limit.

Table 7.3.8 Restricted bands

MHz	MHz	MHz	MHz	MHz	GHz
0.09 - 0.11	8.37625 - 8.38675	73 - 74.6	399.9 - 410	2690 - 2900	10.6 - 12.7
0.495 - 0.505	8.41425 - 8.41475	74.8 - 75.2	608 - 614	3260 - 3267	13.25 - 13.4
2.1735 - 2.1905	12.29 - 12.293	108 - 121.94	960 - 1240	3332 - 3339	14.47 - 14.5
4.125 - 4.128	12.51975 - 12.52025	123 - 138	1300 - 1427	3345.8 - 3358	15.35 - 16.2
4.17725 - 4.17775	12.57675 - 12.57725	149.9 - 150.05	1435 - 1626.5	3600 - 4400	17.7 - 21.4
4.20725 - 4.20775	13.36 - 13.41	156.52475 - 156.52525	1645.5 - 1646.5	4500 - 5150	22.01 - 23.12
6.215 - 6.218	16.42 - 16.423	156.7 - 156.9	1660 - 1710	5350 - 5460	23.6 - 24
6.26775 - 6.26825	16.69475 - 16.69525	162.0125 - 167.17	1718.8 - 1722.2	7250 - 7750	31.2 - 31.8
6.31175 - 6.31225	16.80425 - 16.80475	167.72 - 173.2	2200 - 2300	8025 – 8500	36.43 - 36.5
8.291 - 8.294	25.5 - 25.67	240 - 285	2310 - 2390	9000 - 9200	Above 38.6
8.362 - 8.366	37.5 - 38.25	322 - 335.4	2483.5 - 2500	9300 - 9500	ADOVE 36.0

Reference numbers of test equipment used

reference numbers of test equipment used								
	HL 0446	HL 0521	HL 0604	HL 0768	HL 0769	HL 1424	HL 1984	HL 2387
	HL 2870	HL 2871	HL 2909	HL 2953	HL 3535	HL 3616	HL 3883	HL 3901

Full description is given in Appendix A.

<sup>\*\*-</sup> EUT front panel refers to 0 degrees position of turntable.





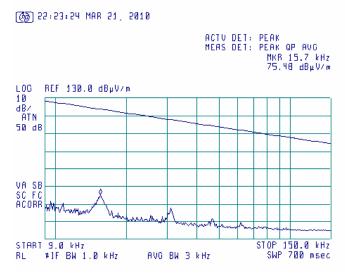
Test specification:		FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions					
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/22/2009	verdict.	PASS				
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC				
Remarks: EUT with 27.9 dBi antenna assembly gain							

Plot 7.3.57 Radiated emission measurements from 9 to 150 kHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

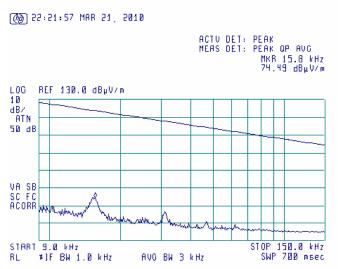
ANTENNA POLARIZATION: Vertical and Horizontal



Plot 7.3.58 Radiated emission measurements from 9 to 150 kHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m





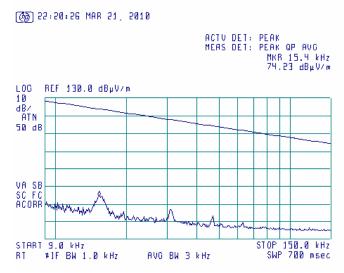
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions						
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/22/2009	verdict.	FASS				
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC				
Remarks: EUT with 27.9 dBi antenna assembly gain							

Plot 7.3.59 Radiated emission measurements from 9 to 150 kHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

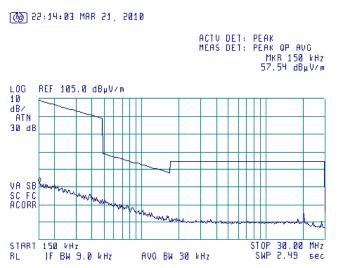
ANTENNA POLARIZATION: Vertical and Horizontal



Plot 7.3.60 Radiated emission measurements from 0.15 MHz to 30 MHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m





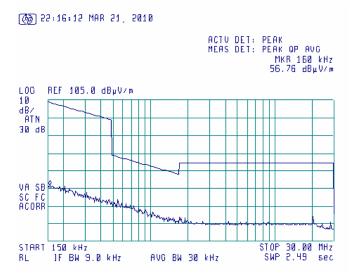
Test specification:		FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions					
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4					
Test mode:	Compliance	Verdict:	PASS				
Date:	3/22/2009	verdict.	PASS				
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC				
Remarks: EUT with 27.9 dBi antenna assembly gain							

Plot 7.3.61 Radiated emission measurements from 0.15 MHz to 30 MHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

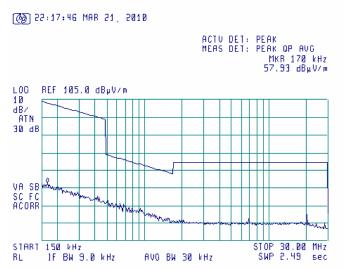
ANTENNA POLARIZATION: Vertical and Horizontal



Plot 7.3.62 Radiated emission measurements from 0.15 MHz to 30 MHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m







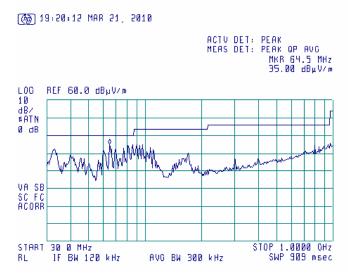
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2009	verdict.	
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.3.63 Radiated emission measurements from 30 MHz to 1000 MHz at the low carrier frequency

TEST SITE: Semi Anechoic chamber

TEST DISTANCE: 3 m

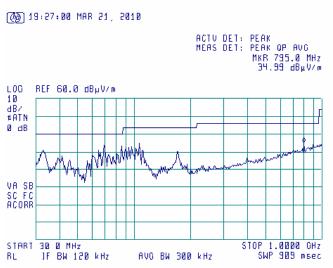
ANTENNA POLARIZATION: Vertical and Horizontal



Plot 7.3.64 Radiated emission measurements from 30 MHz to 1000 MHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m







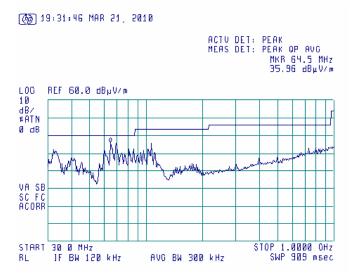
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2009	verdict.	
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.3.65 Radiated emission measurements from 30 MHz to 1000 MHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

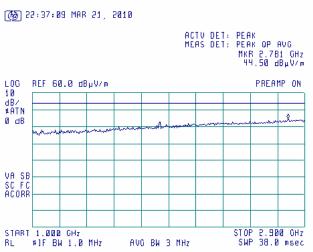


Plot 7.3.66 Radiated emission measurements from 1.0 to 2.9 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit





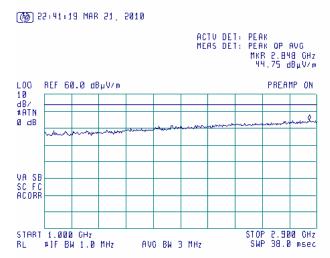
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2009		FASS
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.3.67 Radiated emission measurements from 1.0 to 2.9 GHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit

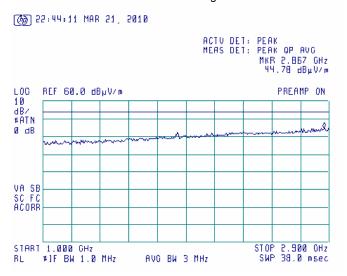


Plot 7.3.68 Radiated emission measurements from 1.0 to 2.9 GHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Peak under average limit





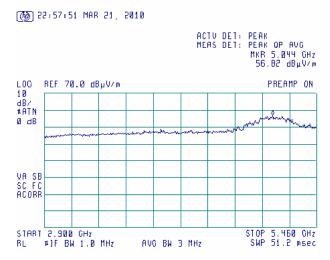
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2009	verdict.	
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.3.69 Radiated emission measurements from 2.9 to 5.46 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit



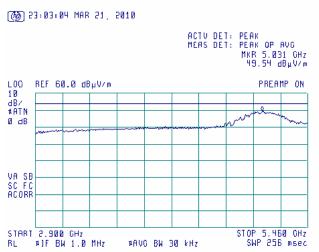
Note: Shall be applied limit 74.0 dBuV

Plot 7.3.70 Radiated emission measurements from 2.9 to 5.46 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2009		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

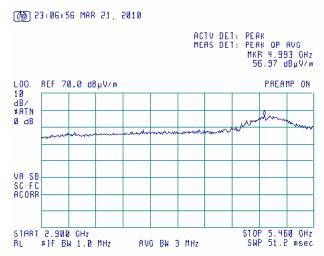
Plot 7.3.71 Radiated emission measurements from 2.9 to 5.46 GHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

DETECTOR: Peak



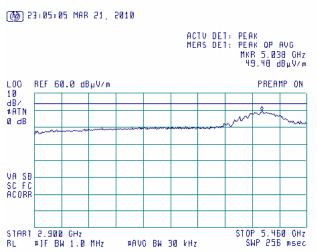
Note: Shall be applied limit 74.0 dBuV

Plot 7.3.72 Radiated emission measurements from 2.9 to 5.46 GHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





Test specification:	FCC section 15.407(b), R	FCC section 15.407(b), RSS-210 Annex 9, section A9.3		
	Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	verdict. PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

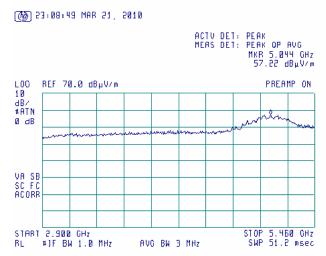
Plot 7.3.73 Radiated emission measurements from 2.9 to 5.46 GHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

DETECTOR: Peak



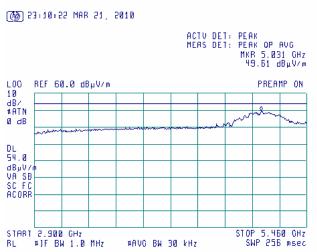
Note: Shall be applied limit 74.0 dBuV

Plot 7.3.74 Radiated emission measurements from 2.9 to 5.46 GHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





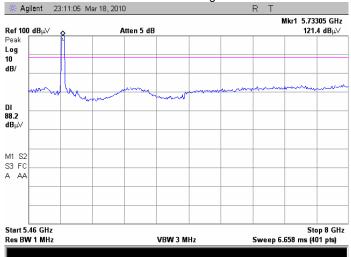
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.75 Radiated emission measurements from 5.46 to 8 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit

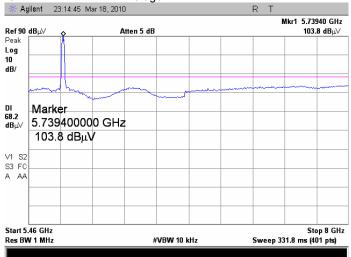


Plot 7.3.76 Radiated emission measurements from 5.46 to 8 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





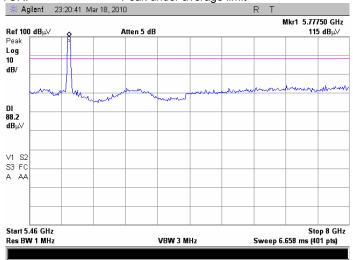
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.77 Radiated emission measurements from 2.9 to 8 GHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit

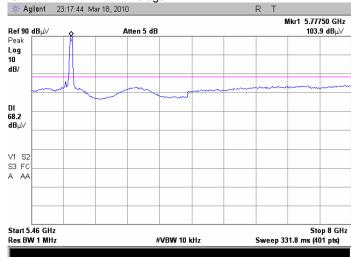


Plot 7.3.78 Radiated emission measurements from 2.9 to 8 GHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

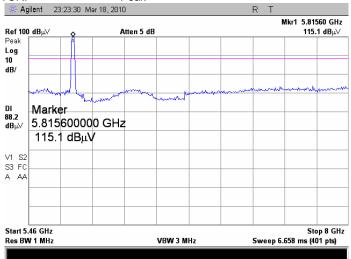
Plot 7.3.79 Radiated emission measurements from 5.46 to 8 GHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

DETECTOR: Peak



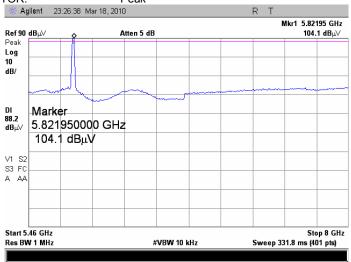
Plot 7.3.80 Radiated emission measurements from 5.46 to 8 GHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

DETECTOR: Peak





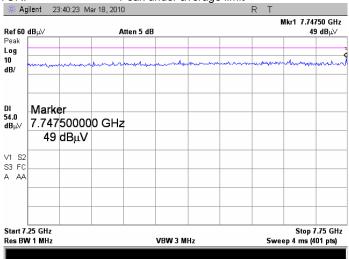
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2009	T Verdict: PASS	
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.3.81 Radiated emission measurements from 7.25 to 7.75 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Peak under average limit

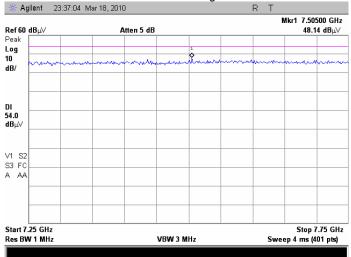


Plot 7.3.82 Radiated emission measurements from 7.25 to 7.75 GHz at the mid carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit







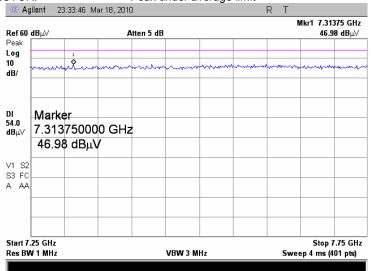
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2009	T Verdict: PASS	
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.3.83 Radiated emission measurements from 7.25 to 7.75 GHz at the high carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR: Vertical and Horizontal Peak under average limit





Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

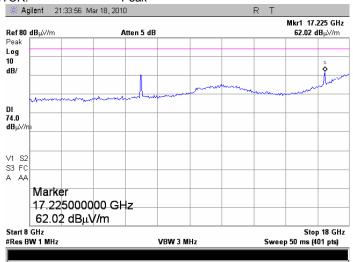
Plot 7.3.84 Radiated emission measurements from 8 to 18 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

DETECTOR: Peak

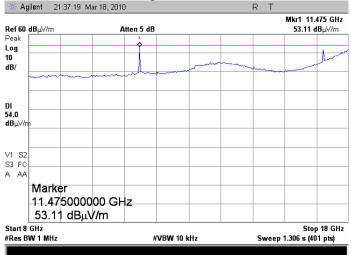


Plot 7.3.85 Radiated emission measurements from 8 to 18 GHz at the low carrier frequency

TEST SITE: Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





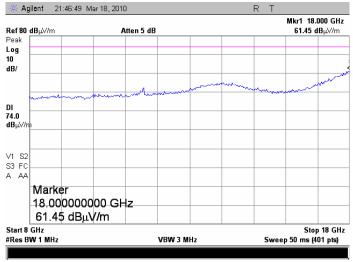
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.86 Radiated emission measurements from 8 to 18 GHz at the mid carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

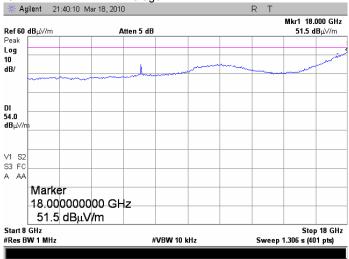
DETECTOR: Peak



Plot 7.3.87 Radiated emission measurements from 8 to 18 GHz at the mid carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





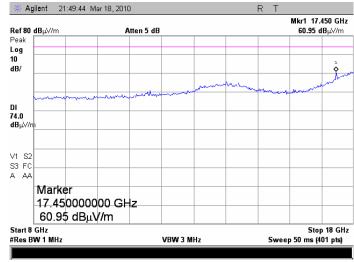
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.88 Radiated emission measurements from 8 to 18 GHz at the high carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

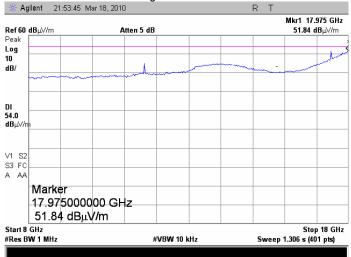
DETECTOR: Peak



Plot 7.3.89 Radiated emission measurements from 8 to 18 GHz at the high carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





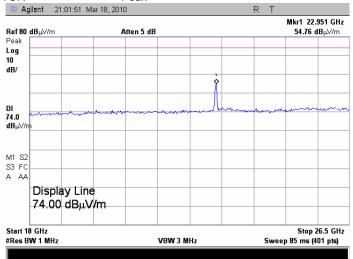
Test specification:	FCC section 15.407(b), R	FCC section 15.407(b), RSS-210 Annex 9, section A9.3		
	Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	verdict. PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.90 Radiated emission measurements from 18 to 26.5 GHz at the low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

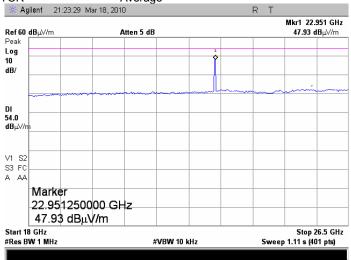
DETECTOR Peak



Plot 7.3.91 Radiated emission measurements from 18 to 26.5 GHz at the low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





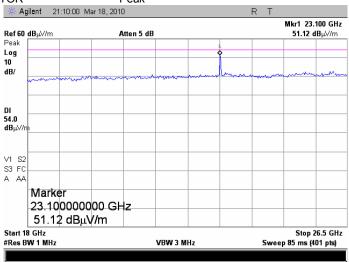
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	7 Verdict. PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.92 Radiated emission measurements from 18 to 26.5 GHz at the mid carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

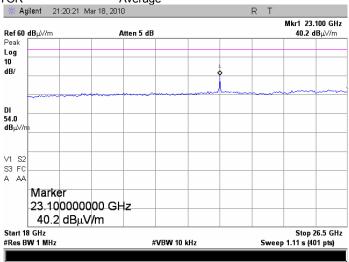
DETECTOR Peak



Plot 7.3.93 Radiated emission measurements from 18 to 26.5 GHz at the mid carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





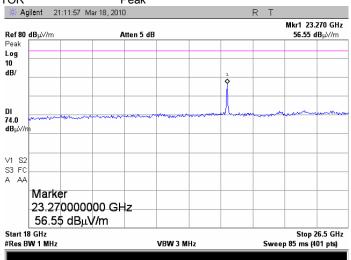
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS	
Date:	3/22/2009	7 Verdict. PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.94 Radiated emission measurements from 18 to 26.5 GHz at the high carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

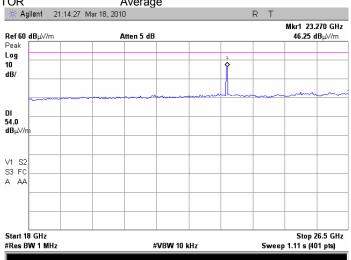
DETECTOR Peak



Plot 7.3.95 Radiated emission measurements from 18 to 26.5 GHz at the high carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal



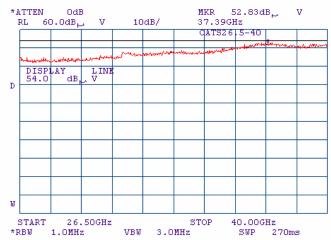


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: PASS	DASS	
Date:	3/22/2009		FASS	
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.96 Radiated emission measurements from 26.5 to 40 GHz at the low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

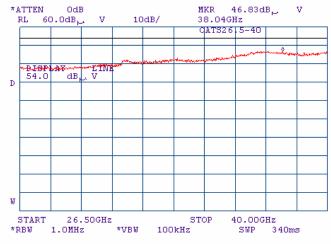
ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR Peak under average limit



Plot 7.3.97 Radiated emission measurements from 26.5 to 40 GHz at the low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal



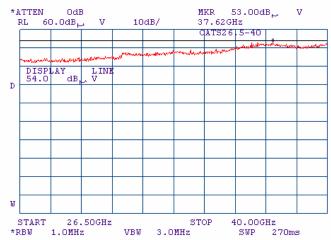


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: F	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.98 Radiated emission measurements from 26.5 to 40 GHz at the mid carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

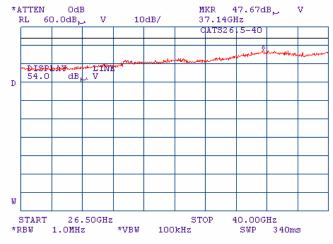
ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR Peak under average limit



Plot 7.3.99 Radiated emission measurements from 26.5 to 40 GHz at the mid carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal



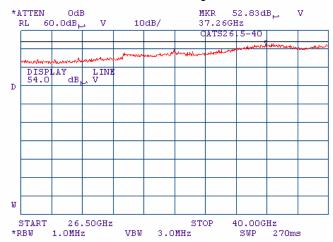


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: PASS	DACC	
Date:	3/22/2009		FASS	
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.100 Radiated emission measurements from 26.5 to 40 GHz at the high carrier frequency (5475MHz)

TEST SITE: OATS TEST DISTANCE: 3 m

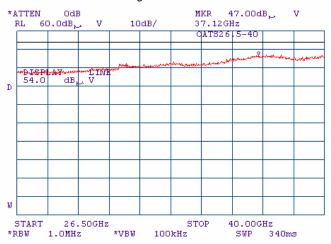
ANTENNA POLARIZATION: Vertical and Horizontal DETECTOR Peak under average limit



Plot 7.3.101 Radiated emission measurements from 26.5 to 40 GHz at the high carrier frequency (5475MHz)

TEST SITE: OATS TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal



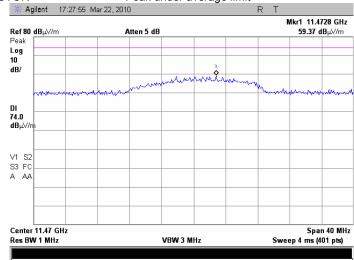


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / AN	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: PASS	PASS	
Date:	3/22/2009	Verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

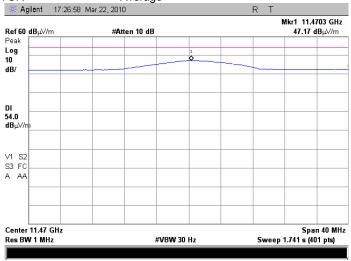
Plot 7.3.102 Radiated emission measurements at the second harmonic of low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit



Plot 7.3.103 Radiated emission measurements at the second harmonic of low carrier frequency

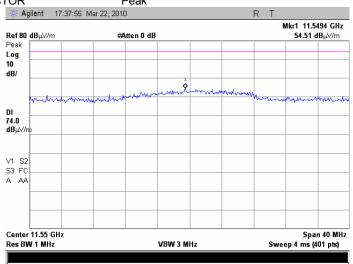




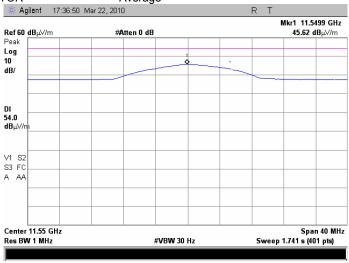
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: F	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.104 Radiated emission measurements at the second harmonic of the mid carrier frequency

TEST SITE: OATS
TEST DISTANCE: 3 m
DETECTOR Peak



Plot 7.3.105 Radiated emission measurements at the second harmonic of the mid carrier frequency



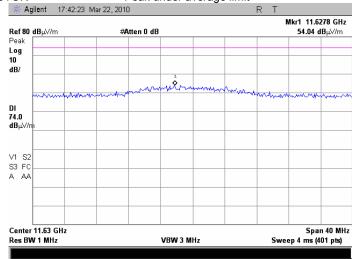


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: F	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

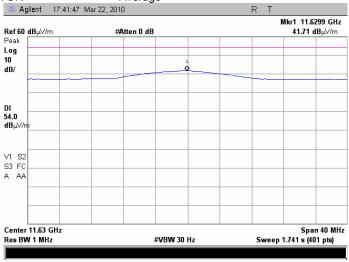
Plot 7.3.106 Radiated emission measurements at the second harmonic of high carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit



Plot 7.3.107 Radiated emission measurements at the second harmonic of high carrier frequency



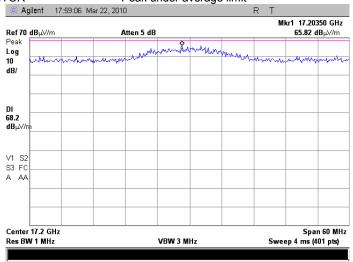


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: F	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.108 Radiated emission measurements at third harmonic of low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

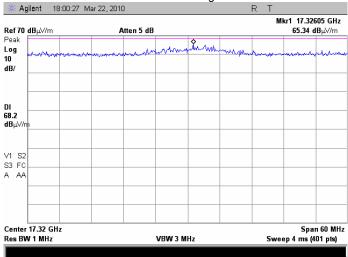
DETECTOR Peak under average limit



Plot 7.3.109 Radiated emission measurements at the third harmonic of the mid carrier frequency

TEST SITE: OATS
TEST DISTANCE: 3 m

DETECTOR Peak under average limit





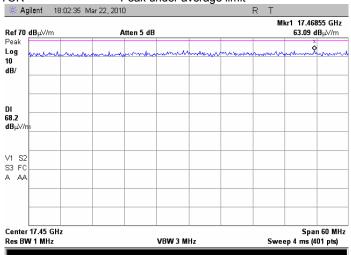


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: F	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

Plot 7.3.110 Radiated emission measurements at the third harmonic of high carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit



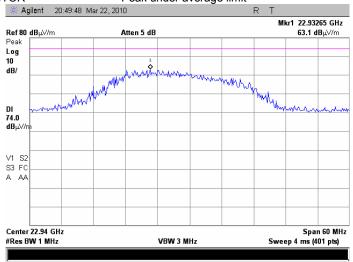


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: F	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

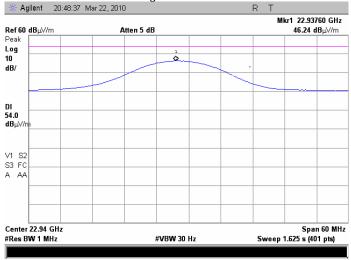
Plot 7.3.111 Radiated emission measurements at the forth harmonic of low carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit



Plot 7.3.112 Radiated emission measurements at the forth harmonic of low carrier frequency



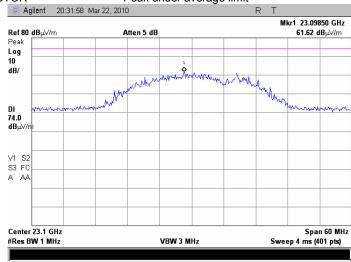


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions			
Test procedure:	Public notice DA 00-705 / ANS	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: F	PASS	
Date:	3/22/2009	verdict: PASS		
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC	
Remarks: EUT with 27.9 dBi antenna assembly gain				

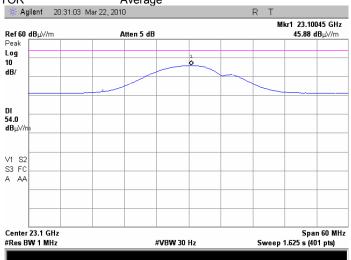
Plot 7.3.113 Radiated emission measurements at the forth harmonic of the mid carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit



Plot 7.3.114 Radiated emission measurements at the forth harmonic of the mid carrier frequency







Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.3 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: P	PASS
Date:	3/22/2009	Verdict. PASS	
Temperature: 24°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.3.115 Radiated emission measurements at the forth harmonic of high carrier frequency

TEST SITE: OATS TEST DISTANCE: 3 m

DETECTOR Peak under average limit

