

EMISSIONS TEST REPORT

Report Number: 3131338DAL-002 **Project Number: 3131338**

Testing performed on the

Zigbee Transceiver

Model: Z7 PASS FCC ID: U5P AVONISIZ7 To

FCC Part 15 Subpart C 15.247 Industry Canada's RSS-210 Issue 6 September 2005, Annex 8 FCC Part 15 Subpart B and ICES-003 Issue 4 February 2004

For

International Safety Instruments, Inc.

Test Performed by: Intertek – ETL SEMKO 420 N Dorothy Drive, Richardson, TX 75081 USA

Test Authorized by: International Safety Instruments, Inc. 922 Hurricane Shoals Rd. Lawrenceville, GA – 30043 USA

Prepared by:	Skamble	Date:	09/19/07
	Sudesh Kamble, Team Leader		
Reviewed by:	David Schram, EMC Manager	Date:	09/21/07









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1 Job Description

1.1 Client Information

This EUT has been tested at the request of:

Company: International Safety Instruments, Inc.

922 Hurricane Shoals Rd.

Lawrenceville, GA – 30043 USA

 Contact:
 Mr. John Baker

 Telephone:
 770-962-2552

 Fax:
 770-963-2797

1.2 Equipment Under Test

Equipment Type: Zigbee Transceiver

Model Number(s): Z7 PASS (see section 1.4.3 for individual items)

Serial number(s): Prototype sample tested

Manufacturer: International Safety Instruments, Inc.

922 Hurricane Shoals Rd.

Lawrenceville, GA – 30043 USA

EUT receive date: August 31, 2007

EUT received condition: Prototype

Test start date: September 4, 2007 Test end date: September 11, 2007

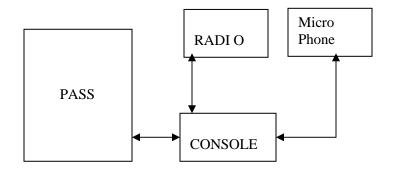
1.3 Test Plan Reference

Tested according to the standards listed, ANSI C63.4:2003, and RSS-Gen Issue 2 June 2007; KDB 558074 and RSS-210 Issue 7 June 2007



1.4 Test Configuration

1.4.1 Block Diagram



1.4.2 Cables:

	Cables									
Cable Id#	Description	Length	Shielding	Ferrites	Connection					
Cable 10 #	Description	Length		retrites	From	To				
Microph one	Audio connection"	29'	Yes	No	PASS Device	Face Mask Microphone				
Radio	PASS to Radio connection	7' 6"	Yes	No	PASS	Radio				
Pass	Pass to Console	1' 7"	Yes	No	Console	PASS Device				

1.4.3 Support Equipment & Equipment Under Test:

Description	Manufacturer	Model Number	Serial Number
MTS2000 Talkie Fm Radio	Motorola	H01UCH6PW1BN FCC ID: AZ489FT5747	466AYE0472
	ICI		15035050
Microphone	ISI	025165 Rev B	15935050

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1.5 Mode(s) of Operation:

The Device was activated from a fresh AA batteries. The EUT was continuously transmitting on low, mid, and high channels and was manipulated in three orthogonal axes. The EUT does not have an antenna port. The antenna is integrated in the device.

1.6	Floor Standing 1	Equipment:		
Appli	cable:	Not Applicable:X_		
1.7	Modifications R	equired for Compliance:		
No mo	No modifications required.			



2 Test Summary

TEST STANDARD	RESULTS	
FCC Part 15 Subpart C 15.247,		
Industry Canada's RSS-210 Issue 6		
September 2005 Annex 8,		
FCC Part 15 Subpart B,		
and Industry Canada's ICES-003 Issue 4		
February 2004		
SUB-TEST	TEST PARAMETER	COMMENT
Maximum Peak Conducted Output Power	The output power of the Radio Module	Pass
and Human RF Exposure	must not exceed 1 Watt (30 dBm) and	
FCC 15.247(b)(3-5),	36 dBm EIRP. The human RF	
RSS-210 A8.4, RSS-102 4.3	Exposure limit is 1 mW/cm ² .	
Occupied Bandwidth	The 6 dB bandwidth of the Radio	Pass
FCC 15.247(a)(2), RSS-210 A8.2	Module must be at least 500 kHz.	
Antenna Port Conducted Spurious Emissions	The spurious emissions of the Radio	Not
FCC 15.209, 15.247(d), RSS-210 A8.5	Module must be attenuated below the	Applicable
	level of the fundamental by at least 20	Integral
	dBc.	Antenna
Radiated Spurious Emissions	The spurious emissions of the Radio	Pass
FCC 15.205, 15.209, 15.247(d), 15.109,	Module must be attenuated below the	
RSS-210 2.2, 2.7, A8.5, ICES-003	level of the fundamental by at least 20	
	dBc. Emissions which fall in the	
	restricted bands must meet the general	
	limits of 15.209 and RSS-210 2.7 Table	
	2. The spurious emissions of the BEP	
	must not exceed the limits of 15.109	
D 1 D C (1D ')	Class B and ICES-003 Class B.	D
Peak Power Spectral Density	The peak power spectral density of the	Pass
FCC 15.247(e), RSS-210 A8.2	Radio Module must not exceed 8 dBm / 3 kHz.	
Dand Edge Compliance		Dogg
Band Edge Compliance FCC 15.215, RSS-210 2.1, A8.5	The fundamental frequency of the Radio Module must stay within the	Pass
FCC 13.213, KSS-210 2.1, A6.3	I **	
AC Line-Conducted Emissions	assigned frequency band. The AC line-conducted emissions of	Not
FCC 15.207, 15.107, RSS-Gen 7.2.2, ICES-	the Radio Module must not exceed the	Applicable
003	limits of 15.207 and RSS-Gen 7.2.2	Battery
003	Table 2. The AC line-conducted	powered
	emissions of the BEP must not exceed	Device
	the limits of 15.107 Class A and	Device
	ICES-003 Class A.	
	1010 003 01000 11.	

Notes: The Mini Tag was tested as a Class A digital device to FCC Part 15 Subpart B and ICES-003; Intentional transmission was tested as a transmitter to the requirements of FCC Part 15 Subpart C 15.247 and RSS-210 Annex 8. Channels selected for test were:

Channel 11: 2405 MHz, Channel 17: 2435 MHz, Channel 26: 2480 MHz



3 REVISION SUMMARY

The following changes have been made to this Report:

Project Project

Date No. Handler Page(s) Item Description of change



4 Sample Calculations

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG

Where $FS = Field Strength in dB\mu V/m$

 $RA = Receiver \ Amplitude \ (including \ preamplifier) \ in \ dB \mu V$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of $52.0~dB\mu V$ is obtained. The antenna factor of 7.4~dB and cable factor of 1.6~dB is added. The amplifier gain of 29~dB is subtracted, giving a field strength of $32~dB\mu V/m$. This value in $dB\mu V/m$ was converted to its corresponding level in $\mu V/m$.

 $RA = 52.0 dB\mu V$

AF = 7.4 dB/m

CF = 1.6 dB

AG = 29.0 dB

 $FS = 32 dB\mu V/m$

Level in $\mu V/m = [10(32 \text{ dB}\mu V/m)/20] = 39.8 \mu V/m$

The following is how net line-conducted readings were determined:

NF = RF + LF + CF + AF

Where $NF = Net Reading in dB\mu V$

RF = Reading from receiver in $dB\mu V$ LF = LISN Correction Factor in dB CF = Cable Correction Factor in dBAF = Attenuator Loss Factor in dB

To convert from $dB\mu V$ to μV or mV the following was used:

$$UF = 10^{(NF/20)}$$
 where $UF = Net$ Reading in μV

Example:

$$NF = RF + LF + CF + AF = 28.5 + 0.2 + 0.4 + 20.0 = 49.1 \ dB\mu V \\ UF = 10^{(48.1 \ dB\mu V \ / \ 20)} = 254 \ \mu V/m$$



4.1 Measurement Uncertainty

Compliance of the product is based on the measured value. However, the measurement uncertainty is included for informational purposes.

The expanded uncertainty $(k = 2)^1$ for radiated emissions from 30 to 1000 MHz has been determined to be:

 ± 3.1 dB at 3m

The expanded uncertainty (k = 2) for mains conducted emissions from 150 kHz to 30 MHz has been determined to be:

±1.74 dB

¹ k=2 represents 95% Confidence Level.



5 Site Description

Test Site(s): 1

The test facility is located at 420 N Dorothy Drive, Richardson, TX - 75081

The FCC site registration number for this site is 10157.

The Industry Canada file no. is IC 6018.

Measurements are conducted with a quasi-peak detector instrument in the frequency range of 30 MHz to 1000 MHz. The measuring receiver meets the requirements of Section One of CISPR 16/ ANSI 63.4 and the measuring antenna correlates to a balanced dipole.

Measurements of the radiated field are made with the antenna located at a distance of 10 meters from the EUT. If the field-strength measurements at 10m cannot be made because of high ambient noise level or for other reasons, measurements of Class B equipment may be made at a closer distance, for example 3m. An inverse proportionality factor of 20 dB per decade should be used to normalize the measured data to the specified distance for determining compliance.

The antenna is adjusted between 1m and 4m in height above the ground plane for maximum meter reading at each test frequency.

The antenna-to-EUT azimuth is varied during the measurement to find the maximum field-strength readings.

The antenna-to-EUT polarization (horizontal and vertical) is varied during the measurements to find the maximum field-strength readings.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. The table is constructed of non-conductive materials. Its dimensions are 1m by 1.5m, but may be extended for larger EUT.

Equipment setup for radiated disturbance tests followed the guidelines of CISPR 16 and ANSI 63.4.



6 Test Results

6.1 Test: Transmitter Output Power and EIRP, and Human RF Exposure

Test Standard: FCC 15.247(b)(3-5), RSS-210 A8.4, RSS-102 4.3

Test Results: Pass **Test Environment:**

Environmental Conditions During Testing:	Humidity (%Rh):	47	Pressure (mbar):	996	Ambient (°C):	26.5
Pretest Verification Performed	N/A		Equipment und	ler Test:	Z7 PASS	

Maximum Test Parameters: The output power of the Radio Module must not exceed 1 Watt (30 dBm) and 36 dBm EIRP. The human RF Exposure limit is 1 mW/cm².

Test Equipment Used:

Equip.	Description	Manufacturer	Model	Serial Number	Cal Date	Cal Due
ID						
77	EMI Receiver	R & S	ES17	100044	12/29/06	12/29/07
192	Handheld Manometer	Omega	HHP-102F	19.99/29.0 PSIA	03/03/07	03/03/08
260	Humidity	Extech	445580	17-260	12/01/06	12/01/07
	Temperature					
30	DMM	Fluke	8060A	6191012	02/08/07	02/08/08
82	Bi-ConiLog Antenna	Schaffner	CBL6112B	2726	06/24/07	06/24/08
128	RF Cable	Custom made	#1	none	07/26/07	07/26/08
131	RF Cable	Custom made	#4	none	07/26/07	07/26/08
271	Horn Antenna	A H Systems	SAS-571	787	02/24/07	02/24/08
101	EMI Receiver	Agilent	E7405A	US40240235	12/20/06	12/20/07

Test Results:

Notes: The cable loss and antenna factor were compensated for in the spectrum analyzer. The field strength obtained at 3 meters distance was converted to EIRP using the equations of DA-00-705A1. A 100 kHz bandwidth and RMS detector were used with a 50 MHz span in order to have 500 discrete non-overlapping values for integration. Since the antenna is integral, conducted output power compliance cannot be demonstrated.

As referenced in RSS-102 2.5, the EUT is exempt from SAR evaluation because the output power is less than 20 mW and RF evaluation because the operating frequency is above 1.5 GHz and the EIRP does not exceed 5 watts. The FCC human RF exposure limit is 1 mW/cm². The power density S generated by some value of EIRP at a given distance d is related by the equation:

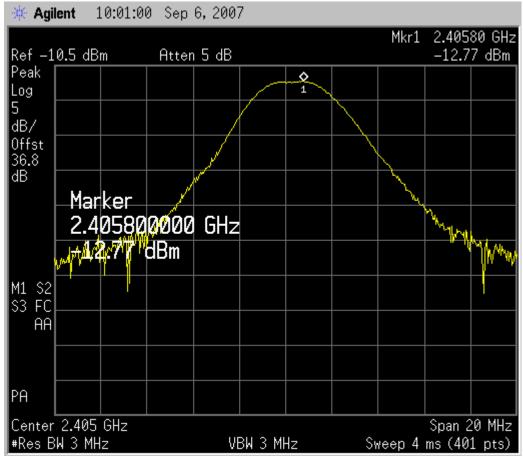
$$S=EIRP/(4\pi d^2)$$

The distance, given a maximum EIRP of -9.45 dBm (0.1135 mW) at which the radiated power density of the EUT is equal to the human RF exposure limit is 0.0950 cm from the antenna. Note that the EUT is exempt from FCC SAR evaluation because the output power is less than 25 mW.



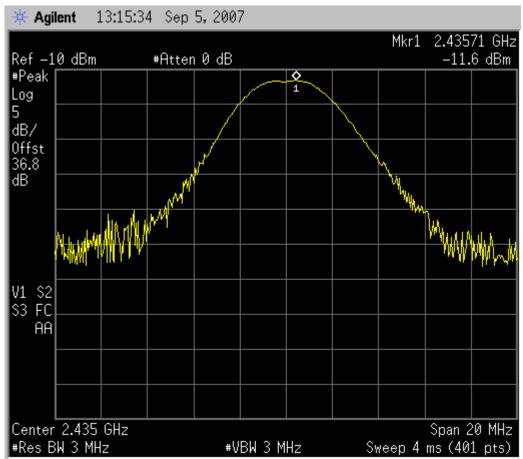
Antenna	Type	Model	Connector	Gain
Integral Antenna	N/A	N/A	N/A	N/A

Pol	Channel	Frequency	Power	Limit	EIRP	EIRP Limit
		(MHz)	(dBm)	(dBm)	(dBm)	(dBm)
V	11	2405	-13.36	30.0	-11.21	36.0
V	17	2435	-12.30	30.0	-10.15	36.0
V	26	2480	-13.16	30.0	-11.01	36.0
Н	11	2405	-12.77	30.0	-10.62	36.0
Н	17	2435	-11.60	30.0	-9.45	36.0
Н	26	2480	-11.97	30.0	-9.82	36.0



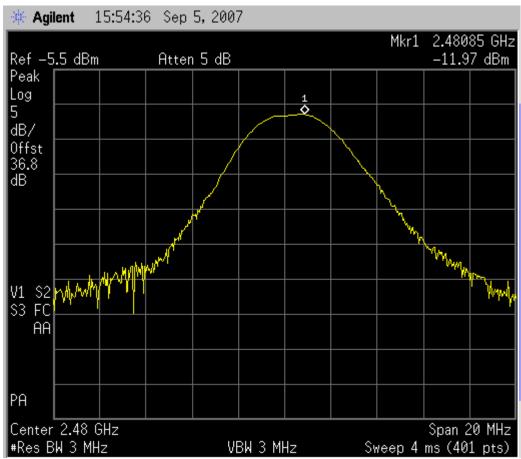
Channel 11





Channel 17





Channel 26



6.2 Test: Occupied Bandwidth

Test Standard: FCC 15.247(a)(2), RSS-210 A8.2

Test Results: Pass

Test Environment:

Environmental Conditions During Testing:	Humidity (%Rh):	49	Pressure (mbar):	997	Ambient (°C):	25.9
Pretest Verification Performed	N/A		Equipment u Test:	ınder	Z7 PASS	

Maximum Test Parameters: The 6 dB bandwidth of the Radio Module must be at least 500 kHz. **Test Equipment Used:**

Equip.	Description	Manufacturer	Model	Serial Number	Cal Date	Cal Due
ID						
77	EMI Receiver	R & S	ES17	100044	12/29/06	12/29/07
192	Handheld Manometer	Omega	HHP-102F	19.99/29.0 PSIA	03/03/07	03/03/08
260	Humidity	Extech	445580	17-260	12/01/06	12/01/07
	Temperature					
30	DMM	Fluke	8060A	6191012	02/08/07	02/08/08
82	Bi-ConiLog Antenna	Schaffner	CBL6112B	2726	06/24/07	06/24/08
128	RF Cable	Custom made	#1	none	07/26/07	07/26/08
131	RF Cable	Custom made	#4	none	07/26/07	07/26/08
271	Horn Antenna	A H Systems	SAS-571	787	02/24/07	02/24/08
101	EMI Receiver	Agilent	E7405A	US40240235	12/20/06	12/20/07

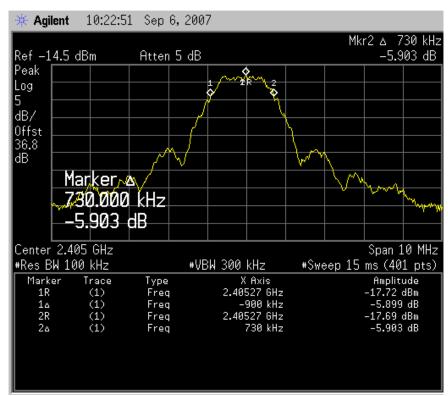
Test Results:

Notes: There is no limit on the 20 dB bandwidth; it is simply included for informational purposes. The 20 dB bandwidth is referenced to the actual RF output power.

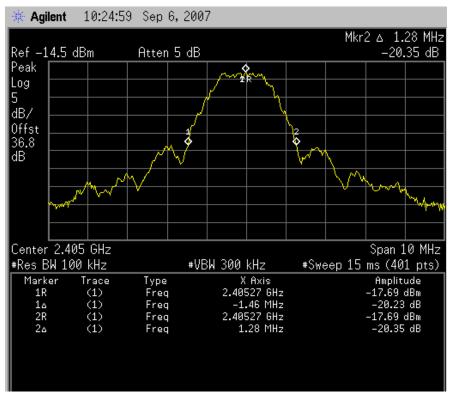
Channel	Frequency	6 dB Bandwidth
11	2405 MHz	1.63 MHz
17	2435 MHz	1.60 MHz
26	2480 MHz	1.63 MHz

Channel	Frequency	20 dB Bandwidth
11	2405 MHz	2.74 MHz
17	2435 MHz	2.70 MHz
26	2480 MHz	2.71 MHz

Channel	Frequency	26 dB Bandwidth
11	2405 MHz	4.58 MHz
17	2435 MHz	4.56 MHz
26	2480 MHz	4.56 MHz

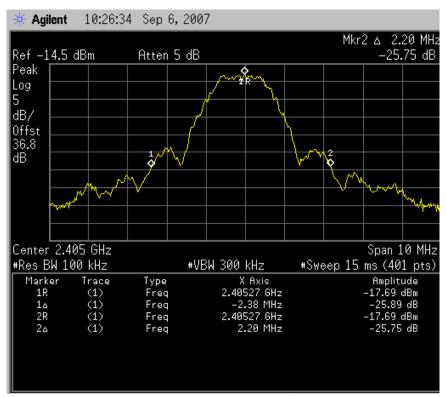


Channel 11: 6dB Bandwidth

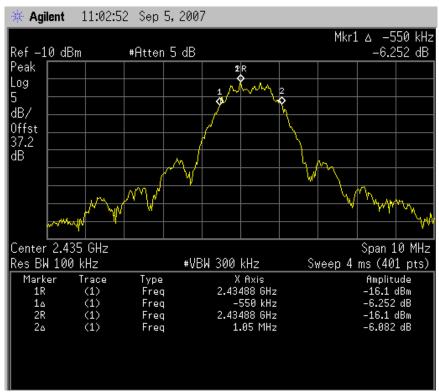


Channel 11: 20 dB Bandwidth



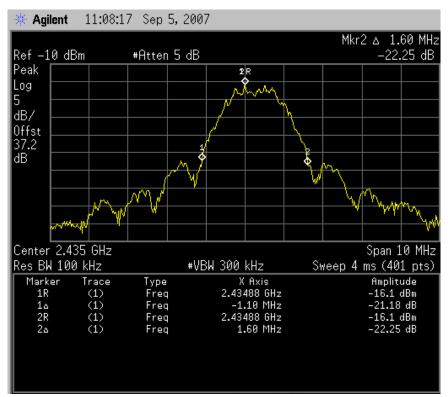


Channel 11: 26 dB Bandwidth

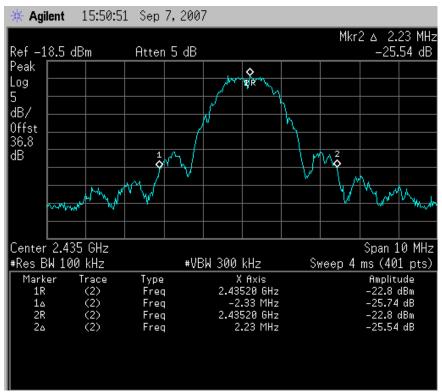


Channel 17: 6 dB Bandwidth

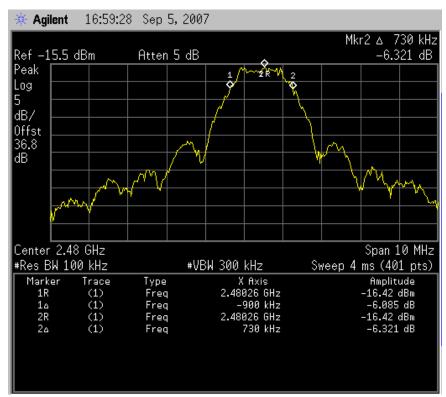




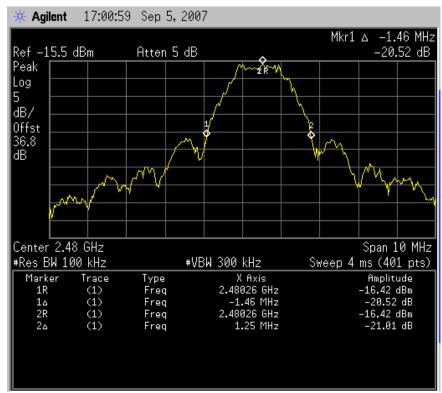
Channel 17: 20 dB Bandwidth



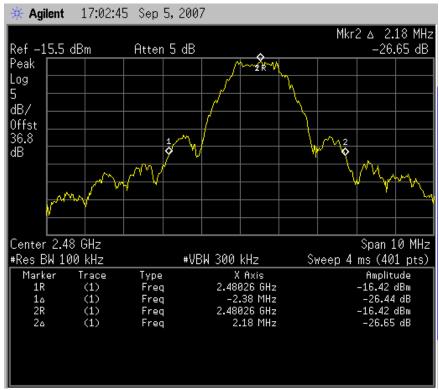
Channel 17: 26 dB Bandwidth



Channel 26: 6 dB Bandwidth



Channel 26: 20 dB Bandwidth



Channel 26: 26 dB Bandwidth



6.3 Test: Radiated Spurious Emissions

Test Standard: FCC 15.205, 15.209, 15.247(d), 15.109, RSS-210 2.2, 2.7, A8.5, ICES-003

Test Results: Pass

Test Environment:

Environmental Conditions During Testing:	Humidity (%Rh):	See Tables	Pressure (mbar):	See Tables	Ambient (°C):	See Tables
Pretest Verification Performed	N/A		Equipment u Test:	ınder	Z7 PASS	

Maximum Test Parameters: The spurious emissions of the Radio Module must be attenuated below the level of the fundamental by at least 20 dBc. Emissions which fall in the restricted bands must meet the general limits of 15.209 and RSS-210 2.7 Table 2. The spurious emissions of the EUT must not exceed the limits of 15.109 Class B and ICES-003 Class B

Test Equipment Used:

Equip.	Description	Manufacturer	Model	Serial Number	Cal Date	Cal Due
ID						
77	EMI Receiver	R & S	ES17	100044	12/29/06	12/29/07
192	Handheld Manometer	Omega	HHP-102F	19.99/29.0 PSIA	03/03/07	03/03/08
260	Humidity	Extech	445580	17-260	12/01/06	12/01/07
	Temperature					
30	DMM	Fluke	8060A	6191012	02/08/07	02/08/08
82	Bi-ConiLog Antenna	Schaffner	CBL6112B	2726	06/24/07	06/24/08
128	RF Cable	Custom made	#1	none	07/26/07	07/26/08
131	RF Cable	Custom made	#4	none	07/26/07	07/26/08
271	Horn Antenna	A H Systems	SAS-571	787	02/24/07	02/24/08
101	EMI Receiver	Agilent	E7405A	US40240235	12/20/06	12/20/07
222	Pre-Amp	Miteq	AMF-4D-	1020106	08/01/06	08/01/07
	_	_	001180-24-10P			
129	RF Cable	Custom made	#2	None	07/26/07	07/26/08



Test Results:

Notes: Above 1 GHz, the emissions shown compare the peak values with the average limits in order to demonstrate overall compliance. The range up to 26 GHz was investigated using the SHF equipment listed in the tables, but only the emissions shown were observed. In cases where no emissions were observed, the noise floor was verified to be under the limit.

Notes: The Device was tested as a Class B digital device to FCC Part 15 Subpart B and ICES-003, Intentional transmission was tested as a transmitter to the requirements of FCC Part 15 Subpart C 15.247 and RSS-210 Annex 8. Channels selected for test were:

Channel 11: 2405 MHz, Channel 17: 2435 MHz, Channel 26: 2480 MHz



Measurement Uncertainty: 3.1 dB

26.7 °C

49 %Rh

997 mbar

Temperature:

Relative Humidity:

Atmospheric Pressure:

Standard: FCC 15.109 / ICES-003

Test: Radiated Emissions

Frequency Range: 30 MHz to 1000 MHz

Limits: Class B

Measurement Distance: 3 meters

EUT Configuration: Tested with continuous trans-receive mode.

Radiated Disturbance

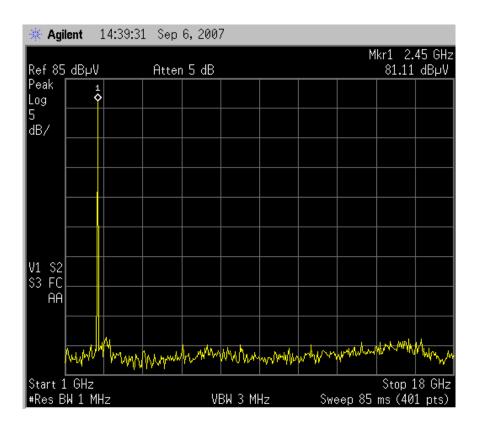
Polarity	Frequenc	Ant	Azimuth	QP	LIMIT	Margin
-	MHz	cm	Deg	dBuV/m	dBuV/m	dB
Н	974.544	345.00	219.00	34.67	47.46	-12.79
Н	945.241	306.00	210.00	34.19	47.46	-13.27
Н	283.665	354.00	110.00	21.89	47.46	-25.57
Н	123.137	306.00	212.00	20.31	40.46	-20.15
Н	30.475	226.00	22.00	26.29	40.46	-14.17
V	783.159	227.00	113.00	32.76	47.46	-14.70
V	842.799	272.00	337.00	34.08	47.46	-13.38
V	870.271	169.00	313.00	34.42	47.46	-13.04
V	881.688	178.00	223.00	34.46	47.46	-13.00
V	905.779	365.00	142.00	34.73	47.46	-12.73
V	931.541	323.00	161.00	35.15	47.46	-12.31
V	954.397	118.00	121.00	35.62	47.46	-11.84
V	974.482	299.00	226.00	35.78	47.46	-11.68
V	983.668	139.00	342.00	35.93	47.46	-11.53
V	994.211	217.00	281.00	36.09	47.46	-11.37



Polarity	Frequency	Ant	Azimuth	Peak	LIMIT	Margin
	GHz	Height	deg.	dBuV/m	dBuV/m	dB
		cm				
V	2.40545	175	54	93.64		
V	2.43488	100	154	94.70		
V	2.48050	113	115	93.84		
Н	2.40545	100	227	94.23		
Н	2.43448	101	220	95.40		
Н	2.48050	100	222	95.03		

Polarity	Frequency	Ant	Azimuth	AVG	LIMIT	Margin
	GHz	Height	deg.	dBuV/m	dBuV/m	dB
		cm				
V	4.86896	102	289	51.653	54.00	-2.35
V	4.96100	112	221	49.870	54.00	-4.13
V	7.21635	121	220	44.354	54.00	-9.65
V	7.30344	100	300	43.724	54.00	-10.28
V	7.44150	106	311	43.204	54.00	-10.80
Н	4.86896	114	252	50.711	54.00	-3.29
Н	4.96100	100	196	50.129	54.00	-3.87
Н	7.21635	105	199	44.519	54.00	-9.48
Н	7.30344	107	210	43.690	54.00	-10.31
Н	7.44150	111	211	42.742	54.00	-11.26





Pre-Scan



6.3.1 Setup Photos









Test Results: Pass

6.4 Test: Peak Power Spectral Density

Test Standard: FCC 15.247(e)(2), RSS-210 A8.2

Test Environment:

Environmental Conditions During Testing:	Humidity (%Rh):	48	Pressure (mbar):	996	Ambient (°C):	26.8
Pretest Verification Performed	N/A		Equipment u Test:	ınder	Z7 PASS	

Maximum Test Parameters: The peak power spectral density of the Radio Module must not exceed 8 dBm / 3 kHz.

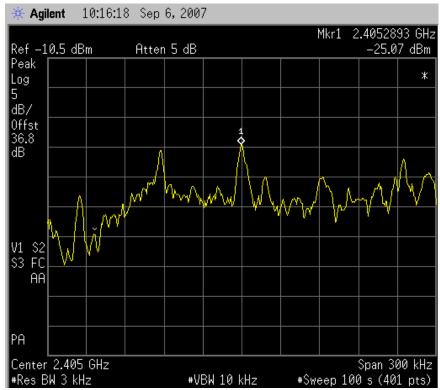
Test Equipment Used:

Equip.	Description	Manufacturer	Model	Serial Number	Cal Date	Cal Due
ID						
77	EMI Receiver	R & S	ES17	100044	12/29/06	12/29/07
192	Handheld Manometer	Omega	HHP-102F	19.99/29.0 PSIA	03/03/07	03/03/08
260	Humidity	Extech	445580	17-260	12/01/06	12/01/07
	Temperature					
30	DMM	Fluke	8060A	6191012	02/08/07	02/08/08
82	Bi-ConiLog Antenna	Schaffner	CBL6112B	2726	06/24/07	06/24/08
128	RF Cable	Custom made	#1	none	07/26/07	07/26/08
131	RF Cable	Custom made	#4	none	07/26/07	07/26/08
271	Horn Antenna	A H Systems	SAS-571	787	02/24/07	02/24/08
101	EMI Receiver	Agilent	E7405A	US40240235	12/20/06	12/20/07
222	Pre-Amp	Miteq	AMF-4D-	1020106	08/01/06	08/01/07
		_	001180-24-10P			

Test Results: Pass

Notes: The cable loss was compensated for in the spectrum analyzer.

Channel	Frequency	Peak Power Spectral Density
11	2405 MHz	-25.07 dBm
17	2435 MHz	-23.37 dBm
26	2480 MHz	-23.73 dBm

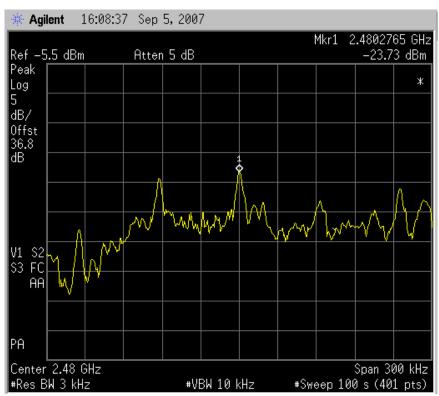


Channel 11 Peak Power Spectral Density



Channel 17 Peak Power Spectral Density





Channel 26 Peak Power Spectral Density



Test Results: Pass

6.5 Test: Band Edge Compliance

Test Standard: FCC 15.215, RSS-210 2.1, A8.5

Test Environment:

Environmental Conditions During Testing:	Humidity (%Rh):	48	Pressure (mbar):	996	Ambient (°C):	26.8
Pretest Verification Performed	N/A		Equipment u Test:	ınder	Z7 PASS	

Maximum Test Parameters: The fundamental frequency of the Radio Module must stay within the assigned frequency band. The emissions beyond band edges must be at least 20 dB below the fundamental and shall meet the requirements of FCC 15.209 limits for out of band emissions.

Test Equipment Used:

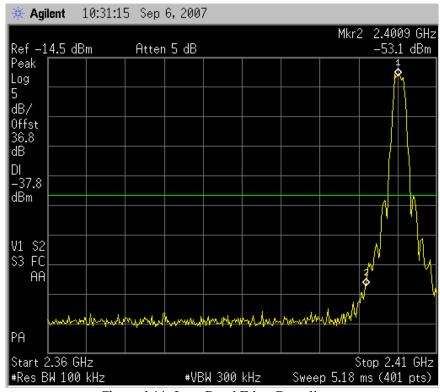
Equip.	Description	Manufacturer	Model	Serial Number	Cal Date	Cal Due
77	EMI Receiver	R & S	ES17	100044	12/29/06	12/29/07
192	Handheld Manometer	Omega	HHP-102F	19.99/29.0 PSIA	03/03/07	03/03/08
260	Humidity Temperature	Extech	445580	17-260	12/01/06	12/01/07
30	DMM	Fluke	8060A	6191012	02/08/07	02/08/08
82	Bi-ConiLog Antenna	Schaffner	CBL6112B	2726	06/24/07	06/24/08
128	RF Cable	Custom made	#1	none	07/26/07	07/26/08
131	RF Cable	Custom made	#4	none	07/26/07	07/26/08
271	Horn Antenna	A H Systems	SAS-571	787	02/24/07	02/24/08
101	EMI Receiver	Agilent	E7405A	US40240235	12/20/06	12/20/07
222	Pre-Amp	Miteq	AMF-4D- 001180-24-10P	1020106	08/01/06	08/01/07

Test Results:

Notes: The cable/Antenna loss was compensated for in the spectrum analyzer. A 100 kHz bandwidth and peak detector was used, and a marker was placed at the peak fundamental level. A marker was placed at the band edge at the highest signal outside the band edge.

The display line shows the level 20 dB below the fundamental in the following graphs.





Channel 11: Low Band Edge Compliance



Channel 26: High Band Edge Compliance