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FEDERAL COMMUNICATIONS COMMISSION

Registration number: 282399

Report No.: GLEMR070401018RFF

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FCC ID: VANVOSSORPLUS

TEST REPORT

Application No.: GLEMR070401018RF

Applicant: SEECODE GERMANY GMBH

FCC ID: VANVOSSORPLUS

Fundamental Carrier

Frequency: 2.402GHz to 2.480GHz

Equipment Under Test (EUT):

Name: Handsfree (Mirror) Car Kit

Model No.: Vossor Plus

Standards: FCC PART 15, SUBPART C: 2006 (Section 15.247).

Date of Receipt: 16 April 2007

Date of Test: 17 April to 23 April 2007

Date of Issue: 24 April 2007

Test Result : PASS *

Authorized Signature:

Stephen Guo Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

^{*} In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 2 of this report for further details.



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2 Test Summary

For Bluetooth Function:						
Test	Test Requirement	Standard Paragraph	Result			
Maximum Peak Output Power	FCC PART 15 :2006	Section 15.247(b)(1)	PASS			
Conducted Emission	FCC PART 15 :2006	Section 15.207	N/A			
Conducted Spurious Emission (30MHz to 25GHz)	FCC PART 15 :2006	Section 15.209 &15.247(d)	PASS			
Radiated Spurious Emission (30MHz to 25GHz)	FCC PART 15 :2006	Section 15.209 &15.247(d)	PASS			
Band Edges Measurement	FCC PART 15 :2006	Section 15.247 (d) &15.205	PASS			
Hopping Channel Number	FCC PART 15 :2006	Section 15.247(a)(1)(iii)	PASS			
Carrier Frequencies Separated	FCC PART 15 :2006	Section 15.247(a)(1)	PASS			
Dwell Time	FCC PART 15 :2006	Section 15.247(a)(1)(iii)	PASS			
Antenna Requirement	FCC PART 15 :2006	Section 15.247 (c)	PASS			



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4 General Information

4.1 Client Information

Applicant: SEECODE GERMANY GMBH

Address: ROSRATHER STR.333, D-51107, KOLN/COLOGNE, GERMANY

4.2 General Description of E.U.T.

Name: Handsfree (Mirror) Car Kit

Model No.: Vossor Plus
Number of Channels 79 Channels

Channel Separation 1 MHz

Type of Modulation FHSS (Frequency Hopping Spread Spectrum)

Dwell time Per channel is less than 0.4S.

Antenna Type Integral

Power Supply: Inside Rechargeable Battery 3.7V

4.3 Description of Support Units

The EUT has been tested stand-alone.

4.4 Standards Applicable for Testing

The customer requested FCC tests for the EUT.

The standard used was FCC PART 15, SUBPART C (2006) section 15.247.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, No.198 Kezhu Road, Science Town Economic& Technology Development District Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.6 Other Information Requested by the Customer

None.



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4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

NVLAP – Lab Code: 200611-0

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

ACA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS L0167

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

• FCC - Registration No.: 282399

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorized test laboratory for the DoC process.

Industry Canada (IC)

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620B-1.

Date of Registration: Jan 15, 2007. Valid until Jan 15, 2009

VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460 and C-2584 respectively.

This certificate is valid until September 14.2009



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5 Equipments Used during Test

	RE in Chamber/OAT	S				
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
EMC0525	Compact Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	06-03-2007	06-03-2008
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100249	05-12-2006	05-12-2007
N/A	EMI Test Software	Audix	E3	N/A	N/A	N/A
EMC0514	Coaxial cable	SGS	N/A	N/A	04-12-2006	04-12-2007
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	31-10-2006	31-10-2007
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	31-07-2006	31-07-2007
EMC0517	Horn Antenna	Rohde & Schwarz	HF906	100095	29-07-2006	29-07-2007
EMC0040	Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	05-12-2006	05-12-2007
EMC0520	0.1-1300 MHz Pre-Amplifier	HP	8447D OPT 010	2944A0625 2	06-03-2007	06-03-2008
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A0164 9	06-03-2007	06-03-2008
EMC0523	Active Loop Antenna	EMCO	6502	00042963	09-08-2006	09-08-2008
EMC0530	10m Semi- Anechoic Chamber	ETS	N/A	N/A	22-08-2006	22-08-2007

	General used equipment					
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
EMC0050- EMC0053	Temperature, & Humidity	ZHENGZHOU BO YANG	WSB	N/A	05-12-2006	05-12-2007
EMC0054	Temperature, & Humidity	Shenzhen Tai Kong	THG-1	N/A	04-01-2007	04-01-2008
EMC0006	DMM	Fluke	73	70681569	27-09-2006	27-09-2007
EMC0007	DMM	Fluke	73	70671122	27-09-2006	27-09-2007



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6 Test Results

6.1 E.U.T. Operation

Input voltage: Inside Rechargeable Battery 3.7V

Type of antenna: Integral

Operating Environment:

Temperature: 20.0 -25.0 °C Humidity: 38-48 % RH Atmospheric Pressure: 992 -1006 mbar

EUT Operation: Test the EUT as a product which has frequency hopping system. The

total hopping channels are 79 channels (0 to 78 channels), the fundamental frequencies are from 2.402GHz to 2.480GHz.

Test the EUT to transmit and receive data at lowest (Channel 0: 2.402GHz), middle (Channel 39: 2.441GHz), and highest channel (Channel 78: 2.480GHz), frequencies individually for the compliance

test.

6.2 Maximum Peak Output Power

Test Requirement: FCC Part15 C

Test Method: Base on ANSI 63.4.

Test Date: 20 April 2007

Test Limit:

Regulation 15.247 (b)(1)For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in

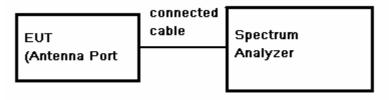
the 2400-2483.5 MHz band: 0.125 watts.

The non-overlapping hopping channels of EUT over 75, the result refer to the result "Hopping channel number" of this document. So 1 watt

limit applies.

Test mode: Test in transmitting mode: Channel 0, Channel 39, Channel 78.

Test Configuration:





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Test Procedure:

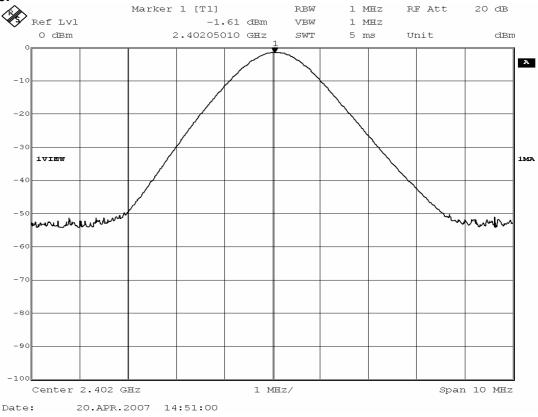
- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 1 MHz, VBW = 1 MHz, Sweep = auto; Detector Function = Peak.
- 3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

Test Result:

Test Channel	Fundamental Frequency (GHz)	Reading Power (dBm)	Cable Loss (dB)	Output Power (dBm)	Limit (dBm)	Margin (dB)
0	2.402	-1.61	1.20	-0.41	30	29.59
39	2.441	-1.80	1.20	-0.60	30	29.40
78	2.480	-3.04	1.20	-1.84	30	28.16

TEST RESULTS: The unit does meet the FCC requirements.

Channel 0:

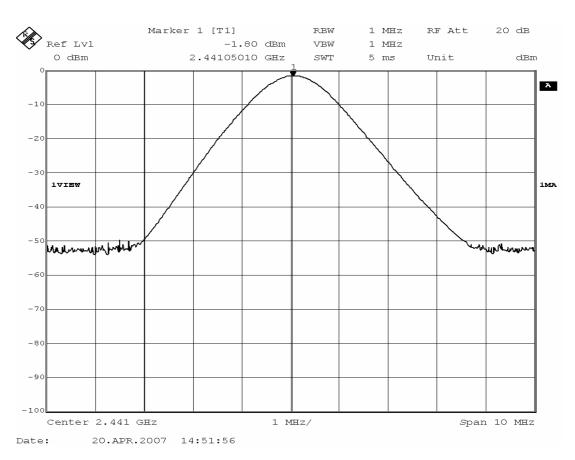


Channel 39:

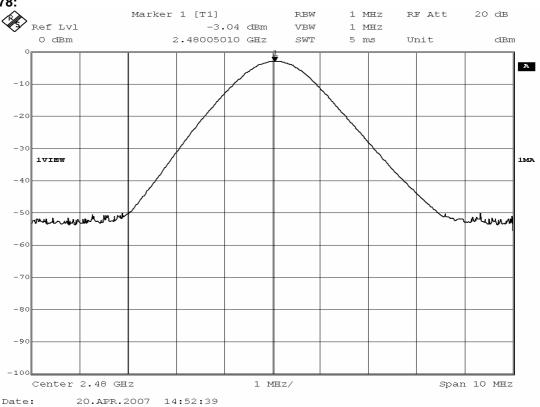


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Channel 78:





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6.3 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: N/A

Remark: Measurements are not required for devices which only employ battery power

for operation and which do not operate from the AC power lines.

The equipment is designed for vehicular use.

6.4 Conducted Spurious Emissions

Test Requirement: FCC Part 15 C

Test Method: Based on FCC Part15 C Section 15.247:

Test Date: 20 April 2007.

Test requirements: (d) In any 100 kHz bandwidth outside the frequency band in which the

spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power

limits.

Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 100KHz, VBW >= RBW (set 100KHz), Sweep = auto; Detector Function = Peak (Max. hold).

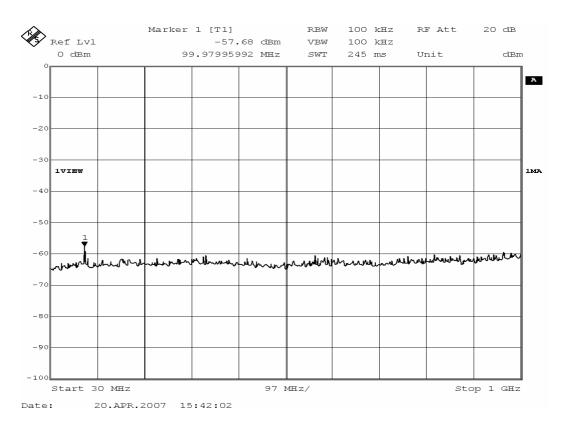
Test result: Pass

Lowest Channel (channel 0): 30M to 1GHz

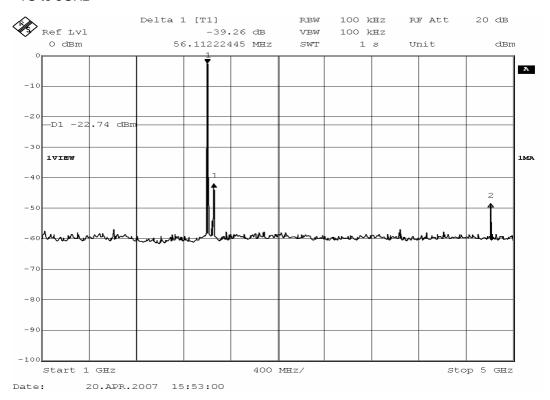


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1G to 5GHz

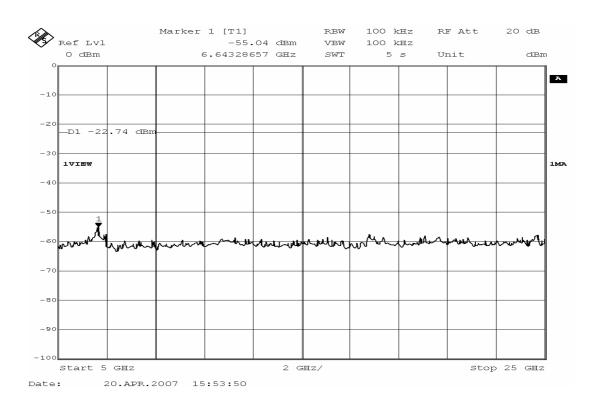


5G to 25GHz

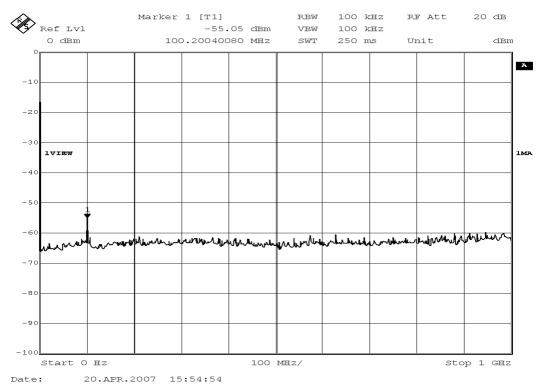


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Medium Channel (channel 39): 30M to 1GHz

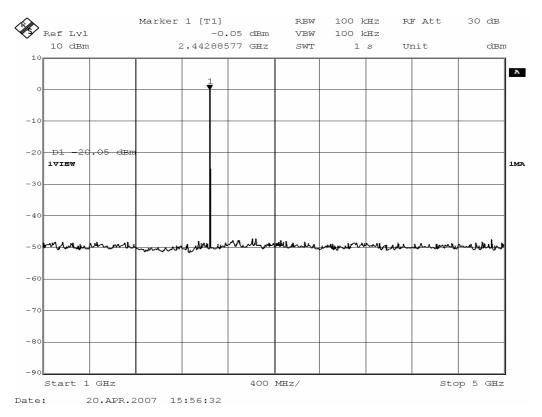


1G to 5GHz

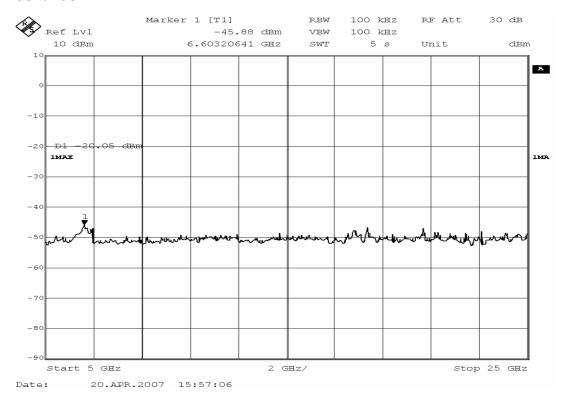


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5G to 25GHz

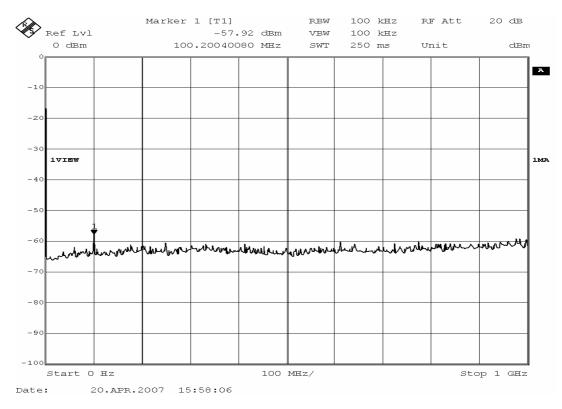


Highest Channel (channel 78): 30M to 1GHz

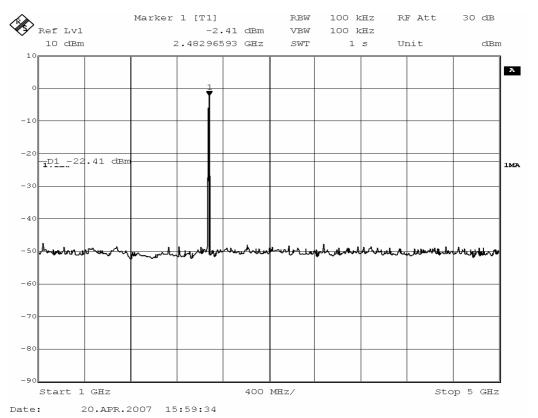


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1G to 5GHz

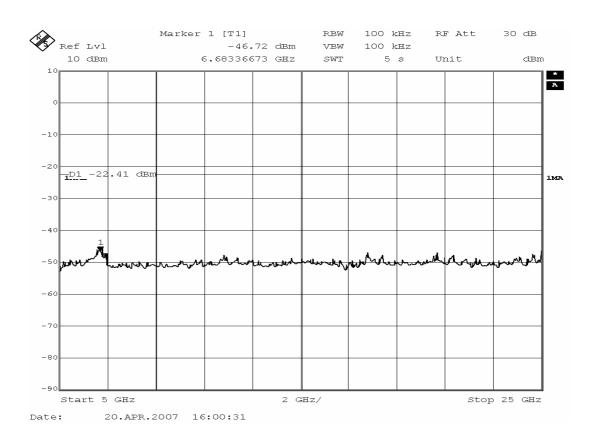


5G to 25GHz



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6.5 Radiated Spurious Emissions

Test Requirement: FCC 15.247(d) & 15.209 & 15.109

Test Method: ANSI C63.4 section 8 & 13

Test Date: 23 April 2007

Test site: Measurement Distance: 3m (Semi-Anechoic Chamber and OATS)

Test instrumentation resolution bandwidth 120 kHz and Quasi-Peak detector applies (30 MHz - 1000 MHz),1 MHz resolution bandwidth and

Peak and Average-Peak detector apply(1000 MHz – 25GHz).

Receive antenna scan height 1 m - 4 m, polarization Vertical / Horizontal

15.209 & 15.109 Limit: $40.0 \text{ dB}\mu\text{V/m}$ between 30MHz & 88MHz

 $43.5~dB\mu V/m$ between 88MHz~&~216MHz $46.0~dB\mu V/m$ between 216MHz~&~960MHz

54.0 dB_μV/m above 960MHz

15.247(d) limit: (d) In any 100 kHz bandwidth outside the frequency band in which the

spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter

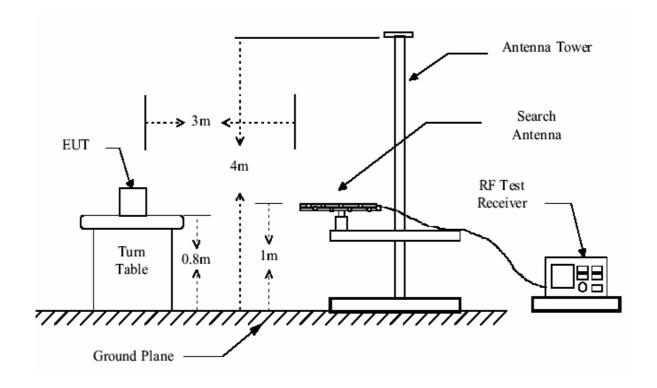
demonstrates compliance with the peak conducted power limits.

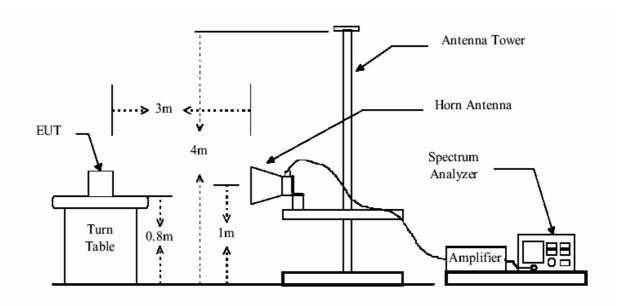
Test Configuration:



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Test Procedure: The procedure uesd was ANSI Standard C63.4-2001. The receive was scanned from 30MHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

The field strength is calculated by adding the Antenna Factor, Cable Factor & Peramplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Peramplifier Factor.

The following test results were performed on the EUT.

Transmitter:

Test in Channel 0 in transmitting status- Vertical polarization

30MHz~1GHz Spurious Emissions, Quasi-Peak Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
144.300	29.6	43.5	13.9
287.940	31.5	46.0	14.5

1~25 GHz Harmonics & Spurious Emissions, Peak & Average Measurement

Peak Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
4804.020	57.3	74.0	16.7

Average Measurement

Frequency	Emission Level (dBuV/m)	Limit	Margin
(MHz)		(dBuV/m)	(dB)
4804.020	43.0	54.0	11.0

Remark: No other radiation has been found.



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Test in Channel 0 in transmitting status- Horizontal polarization

30MHz~1GHz Spurious Emissions ,Quasi-Peak Measurement

Frequency	Emission Level (dBuV/m)	Limit	Margin
(MHz)		(dBuV/m)	(dB)
261.940	33.5	46.0	12.5

1~25 GHz Harmonics & Spurious Emissions, Peak & Average Measurement

Peak Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1595.000	52.0	74.0	22.0
4804.130	53.3	74.0	20.7

Average Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1595.000	40.0	54.0	14.0
4804.130	42.0	54.0	12.0

Remark: No other radiation has been found.



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Test in Channel 39 in transmitting status- Vertical polarization

30MHz~1GHz Spurious Emissions, Quasi-Peak Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
208.010	35.5	43.5	8.0

^{1~25} GHz Harmonics & Spurious Emissions, Peak & Average Measurement

Peak Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1629.010	49.0	74.0	25.0
4882.020	57.3	74.0	16.7

Average Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1629.010	40.8	54.0	13.2
4882.020	44.3	54.0	9.7

Test in Channel 39 in transmitting status- Horizontal polarization

30MHz~1GHz Spurious Emissions, Quasi-Peak Measurement

Frequency	Emission Level (dBuV/m)	Limit	Margin
(MHz)		(dBuV/m)	(dB)
207.992	34.6	43.5	8.9

^{1~25} GHz Harmonics & Spurious Emissions, Peak & Average Measurement

Peak Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1646.010	36.0	74.0	38.0
4882.020	54.3	74.0	19.7

Average Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1646.010	30.5	54.0	23.5
4882.020	44.0	54.0	10.0

Remark: No other radiation has been found.



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Test in Channel 78 in transmitting status- Vertical polarization

30MHz~1GHz Spurious Emissions, Quasi-Peak Measurement

Frequency	Emission Level (dBuV/m)	Limit	Margin
(MHz)		(dBuV/m)	(dB)
287.990	36.1	43.5	7.4

^{1~25} GHz Harmonics & Spurious Emissions, Peak & Average Measurement

Peak Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1646.010	36.2	74.0	37.8
4960.020	57.3	74.0	16.7

Average Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1629.010	30.8	54.0	23.2
4960.020	43.8	54.0	10.2

Test in Channel 78 in transmitting status- Horizontal polarization

30MHz~1GHz Spurious Emissions ,Quasi-Peak Measurement

Frequency	Emission Level (dBuV/m)	Limit	Margin
(MHz)		(dBuV/m)	(dB)
287.990	35.2	43.5	8.3

^{1~25} GHz Harmonics & Spurious Emissions, Peak & Average Measurement

Peak Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1629.010	43.0	74.0	31.0
4882.020	43.8	74.0	30.2

Average Measurement

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1629.010	30.6	54.0	23.4
4882.020	34.3	54.0	19.7

Remark: No other radiation has been found.



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Receiver:

30MHz~25 GHz Harmonics & Spurious Emissions

None of radiation has been found in receiving mode.

TEST RESULTS: The unit does meet the FCC requirements.



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6.6 Band Edges Requirement

Test Requirement: FCC Part 15 C
Test Method: Based on ANSI 63.4

Operation within the band 2400 – 2483.5 MHz

Test Date: 20 April 2007

Requirements: Section 15.247 (d)In any 100 kHz bandwidth outside the frequency band in

which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the

radiated emission limits specified in Section 15.209(a) (see Section

15.205(c)).

6.6.1 100 kHz Bandwidth Outside the Frequency Band

Method of Set RBW of spectrum analyzer to 100 kHz and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 kHz bandwidth from band

edge.

The band edges was measured and recorded.

Test Result:

The Lower Edge 2.4000GHz: the value is -38.62dB that is attenuated more than 20dB.

The Upper Edge 2.4835GHz: the value is -43.51dB that is attenuated more than 20dB.

The unit does meet the FCC requirements.



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6.7 Hopping Channel Number

Test Requirement: FCC Part15 C

Based on FCC Part15 C Section 15.247 Test Method:

Test Date: 20 April 2007

Regulation 15.247 (a) (1)(iii) Frequency hopping systems in the 2400-Requirements:

2483.5 MHz band shall use at least 15 channels.

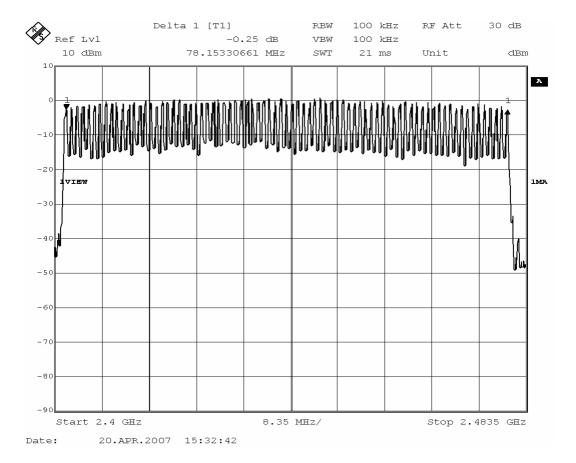
Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

- 2. Set the spectrum analyzer: RBW = 100KHz, VBW = 100KHz, Sweep = auto; Detector Function = Peak.
- 3. Set the spectrum analyzer: start frequency = 2400MHz, stop frequency = 2483.5MHz. Record the max. hold reading graph.

Test result: Total channels are 79 channels, channel 0 to channel 78.

It also comply with the demand of frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels. The Maximum peak conducted output power limit apply 1 watt according to regulation 15.247 (b)(1).





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6.8 Occupied Bandwidth

Test Requirement: FCC Part 15 C

Test Method: Based on FCC Part15 C Section 15.247:

Test Date: 20 April 2007

Test Procedure:

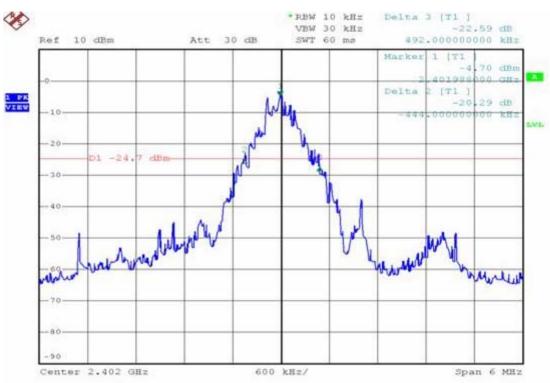
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

- 2. Set the spectrum analyzer: RBW >= 1% of the 20dB bandwidth (set 10KHz), VBW >= RBW (set 10KHz), Span = 3MHz, Sweep = auto; Detector Function = Peak (Max. hold).
- 3. Mark the peak frequency and -20dB points.

Test result:

Test Channel	20 dB bandwidth
0	936.0KHz
39	936.0KHz
78	960.0KHz

Channel 0:

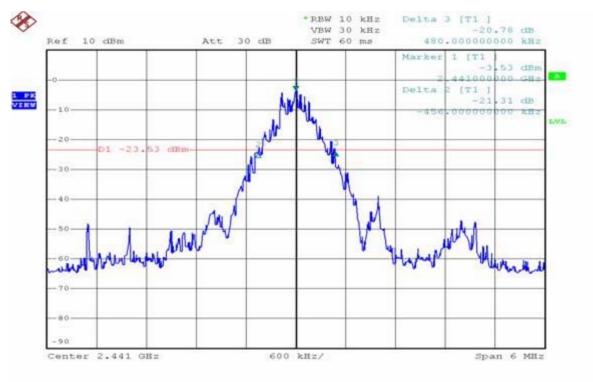




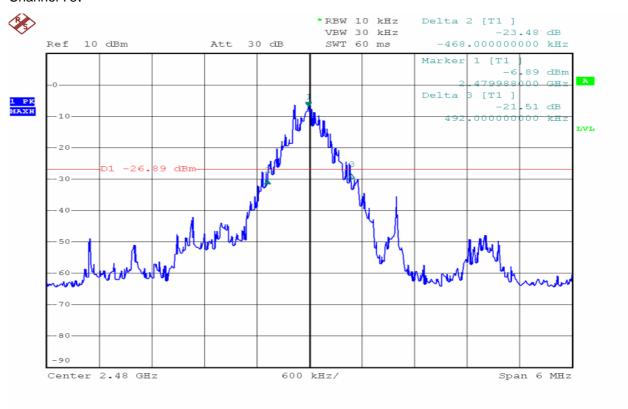
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Channel 39:



Channel 78:





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6.9 Carrier Frequencies Separated

Test Requirement: FCC Part 15 C

Test Method: Based on FCC Part15 C Section 15.247:

Test Date: 20 April 2007

Test requirements: Regulation 15.247(a)(1) Frequency hopping systems shall have hopping

channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater

than 125 mW.

Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

- 2. Set the spectrum analyzer: RBW >= 1% of the span (set 100KHz), VBW >= RBW (set 300KHz), Span = 10MHz, Sweep = auto; Detector Function = Peak (Max. hold).
- 3. Mark the peak frequency and -20dB.

Test result:

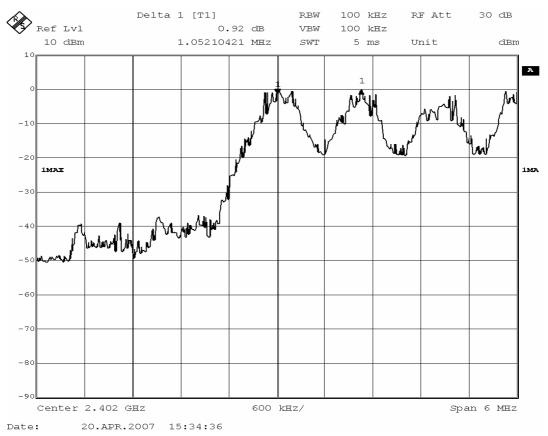
Test Channel	Carrier Frequencies Separated	Limit	Verdict
Lower Channels	1.052MHz		Pass
(channel 0 and channel 1)			1 433
Middle Channels	1.010MHz	>20dBm	Pass
(channel 39 and channel 40)			1 433
Middle Channels	1.010MHz	Occupied bandwidth	Pass
(channel 38 and channel 39)			1 400
Upper Channels	1.010MHz		Pass
(channel 77 and channel 78)			1 400



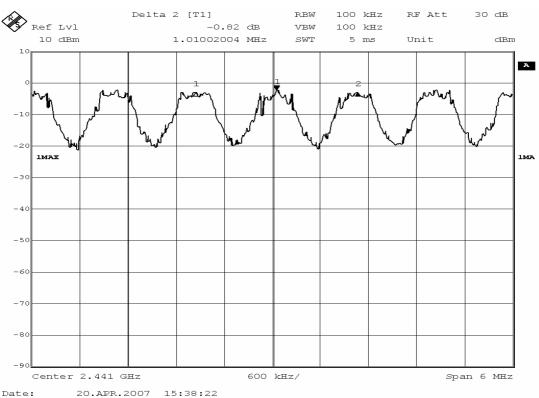
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Channel 0:



Channel 39:

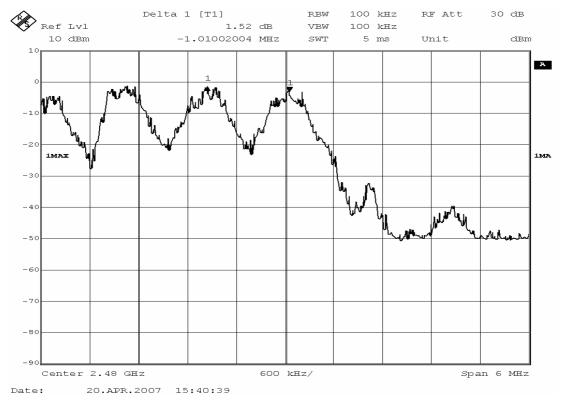




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Channel 78:





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6.10 Dwell Time

Test Requirement: FCC Part 15 C

Test Method: Based on FCC Part15 C Section 15.247:

Test Date: 20 April 2007

Test requirements: Regulation 15.247(a)(1)(iii) Frequency hopping systems in

the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided

that a minimum of 15 channels are used.

Test Procedure:

- Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set RBW of spectrum analyzer to 1MHz and VBW of spectrum analyzer to 1MHz, Set the test channel frequency span to 0.

Test Result:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

1. Channel 0: 2.402GHz

DH1 time slot = 0.396 (ms) * (1600/(2*79)) * 31.6 = 126.720 ms DH3 time slot = 1.459 (ms) * (1600/(4*79)) * 31.6 = 233.338 ms DH5 time slot = 2.916 (ms) * (1600/(6*79)) * 31.6 = 308.267 ms

2. Channel 39: 2.441GHz

DH1 time slot = 0.396 (ms) * (1600/(2*79)) * 31.6 = 126.720 ms DH3 time slot = 1.458 (ms) * (1600/(4*79)) * 31.6 = 233.278 ms DH5 time slot = 2.885 (ms) * (1600/(6*79)) * 31.6 = 307.733 ms

3. Channel 78: 2.4835GHz

DH1 time slot = 0.387 (ms) * (1600/(2*79)) * 31.6 = 123.840 ms DH3 time slot = 1.475 (ms) * (1600/(4*79)) * 31.6 = 235.998 ms DH5 time slot = 2.886 (ms) * (1600/(6*79)) * 31.6 = 307.837 ms

The results are not be greater than 0.4 seconds.

The unit does meet the FCC requirements.

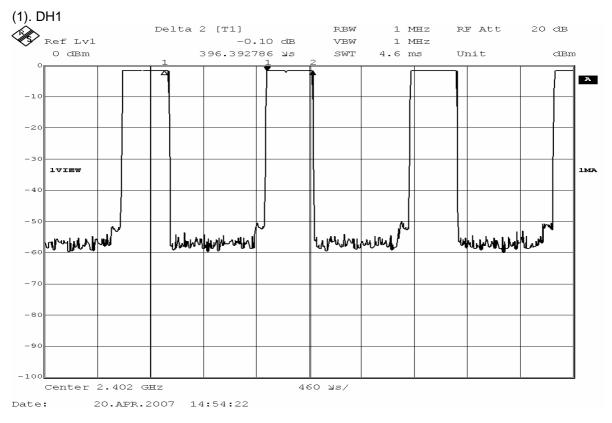
Please refer the graph as below:

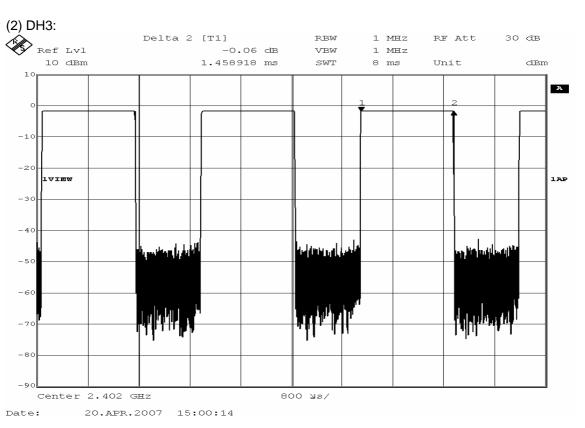


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1. Lowest channel (2.402 GHz):



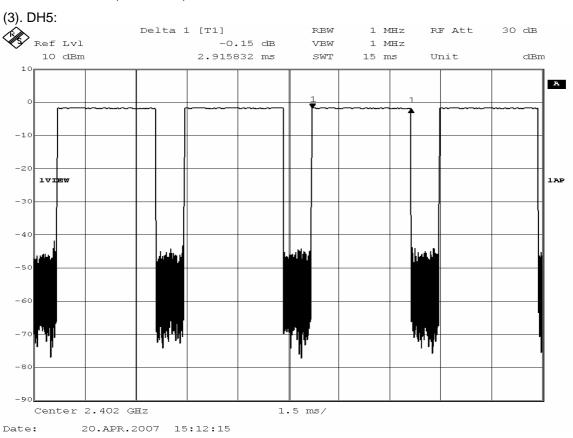




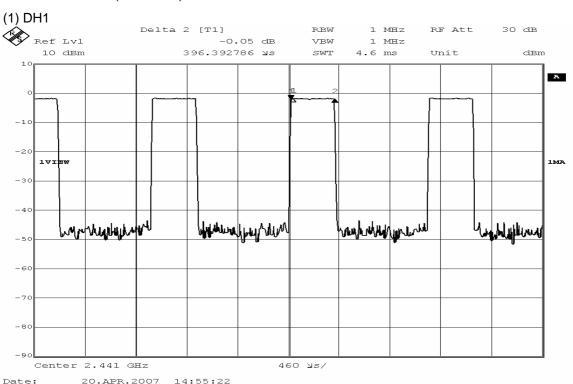
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1. Lowest channel (2.402 GHz):



2. Middle Channel (2.441GHz)

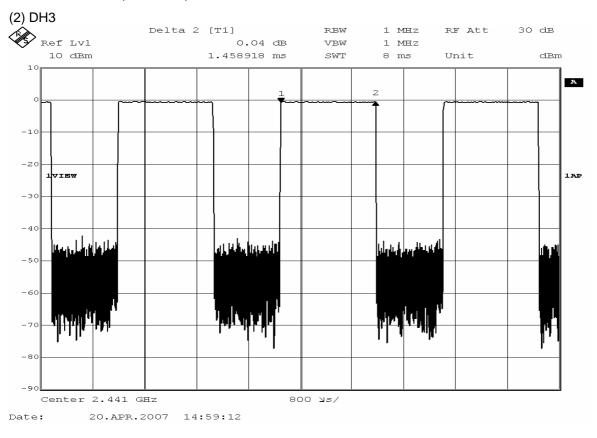


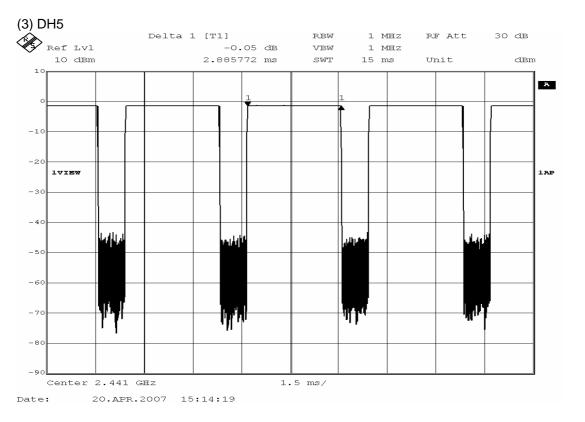


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2. Middle Channel (2.441GHz)



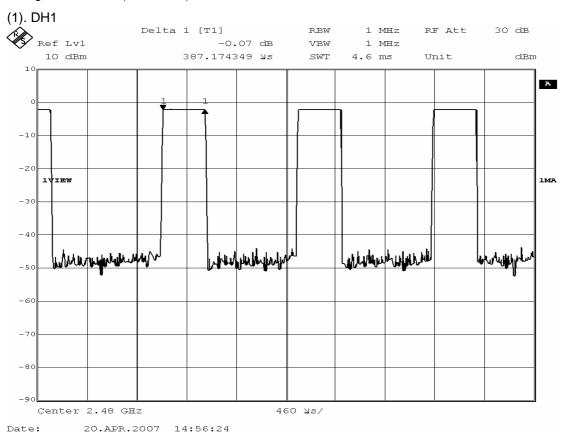


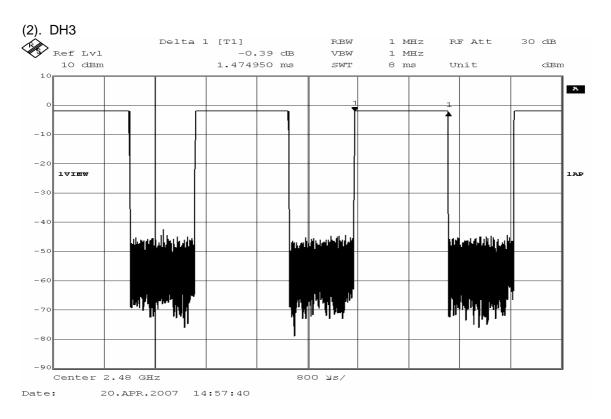


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3. Highest channel (2.480GHz)



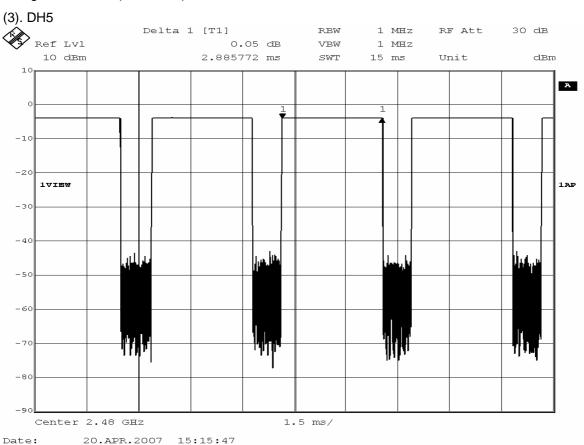




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3. Highest channel (2.480GHz)





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6.11 Antenna Requirement

6.11.1 Standard Applicable

For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Regulation 15.247(c) (1)(i) Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

6.11.2 Antenna Construction

The antenna is integrated on the main PCB and no consideration of replacement.