

FC

Test Report

Product Name	OgoClip Handset
Model No.	OC-HS1
FCC ID.	SOWOCHS01

Applicant	IXI Mobile (USA), Inc.
Address	1301 Shoreway Road, Suite 380 Belmont, CA 94002 USA

Date of Receipt	Oct. 09, 2007
Issued Date	Oct. 19, 2007
Report No.	07A174R-RFUSP06V01

The Test Results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Issued Date: Oct. 19, 2007

Report No.: 07A174R-RFUSP06V01



Product Name	OgoClip Handset
Applicant	IXI Mobile (USA), Inc.
Address	1301 Shoreway Road, Suite 380 Belmont, CA 94002 USA
Manufacturer	LITE-ON TECHNOLOGY CORP.
Model No.	OC-HS1
FCC ID.	SOWOCHS01
Rated Voltage	AC 120V/60Hz
Working Voltage	DC 5V
Trade Name	OgoClip
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2006 ANSI C63.4: 2003
Test Result	Complied



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Documented By :



(Engineering Adm. Specialist /
Rita Huang)


Tested By :



(Engineer / Dino Chen)

Approved By :



(Deputy Manager / Vincent Lin)



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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	OgoClip Handset
Trade Name	OgoClip
FCC ID.	SOWOCHS01
Model No.	OC-HS1
Frequency Range	2402 – 2480MHz
Channel Number	79
Type of Modulation	FHSS (GFSK/8DPSK)
Antenna Interface	Soldered on PCB
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”

Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	Soarcomm	SC-328C	2dBi for 2.4 GHz

Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00:	2402 MHz	Channel 20:	2422 MHz	Channel 40:	2442 MHz	Channel 60:	2462 MHz
Channel 01:	2403 MHz	Channel 21:	2423 MHz	Channel 41:	2443 MHz	Channel 61:	2463 MHz
Channel 02:	2404 MHz	Channel 22:	2424 MHz	Channel 42:	2444 MHz	Channel 62:	2464 MHz
Channel 03:	2405 MHz	Channel 23:	2425 MHz	Channel 43:	2445 MHz	Channel 63:	2465 MHz
Channel 04:	2406 MHz	Channel 24:	2426 MHz	Channel 44:	2446 MHz	Channel 64:	2466 MHz
Channel 05:	2407 MHz	Channel 25:	2427 MHz	Channel 45:	2447 MHz	Channel 65:	2467 MHz
Channel 06:	2408 MHz	Channel 26:	2428 MHz	Channel 46:	2448 MHz	Channel 66:	2468 MHz
Channel 07:	2409 MHz	Channel 27:	2429 MHz	Channel 47:	2449 MHz	Channel 67:	2469 MHz
Channel 08:	2410 MHz	Channel 28:	2430 MHz	Channel 48:	2450 MHz	Channel 68:	2470 MHz
Channel 09:	2411 MHz	Channel 29:	2431 MHz	Channel 49:	2451 MHz	Channel 69:	2471 MHz
Channel 10:	2412 MHz	Channel 30:	2432 MHz	Channel 50:	2452 MHz	Channel 70:	2472 MHz
Channel 11:	2413 MHz	Channel 31:	2433 MHz	Channel 51:	2453 MHz	Channel 71:	2473 MHz
Channel 12:	2414 MHz	Channel 32:	2434 MHz	Channel 52:	2454 MHz	Channel 72:	2474 MHz
Channel 13:	2415 MHz	Channel 33:	2435 MHz	Channel 53:	2455 MHz	Channel 73:	2475 MHz
Channel 14:	2416 MHz	Channel 34:	2436 MHz	Channel 54:	2456 MHz	Channel 74:	2476 MHz
Channel 15:	2417 MHz	Channel 35:	2437 MHz	Channel 55:	2457 MHz	Channel 75:	2477 MHz
Channel 16:	2418 MHz	Channel 36:	2438 MHz	Channel 56:	2458 MHz	Channel 76:	2478 MHz
Channel 17:	2419 MHz	Channel 37:	2439 MHz	Channel 57:	2459 MHz	Channel 77:	2479 MHz
Channel 18:	2420 MHz	Channel 38:	2440 MHz	Channel 58:	2460 MHz	Channel 78:	2480 MHz
Channel 19:	2421 MHz	Channel 39:	2441 MHz	Channel 59:	2461 MHz		

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. The transmitter is presented with a continuous data stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its 79 channels and over the minimum number of hopping channels (75 channels).

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Note:

1. This device is a OgoClip Handset with a built-in 2.4GHz BluetoothVer.2.0+EDR transceiver.
2. These tests were conducted on a sample for the purpose of demonstrating compliance of bluetooth transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

1.2. Operational Description

The EUT is an OgoClip Handset with a built-in 2.4GHz BluetoothVer.2.0+EDR transceiver. The number of the channels is 79 in 2402-2480MHz. The device adapts the frequency hopping spread spectrum modulation. The antenna is connector-type and provides diversity function to improve the receiving function.

This device provides wireless technology that revolutionizes personal connectivity. It is the solution for the seamless integration of Bluetooth technology into personal computer enabling short-range wireless connections between desktop/laptop computers, Bluetooth-enabled peripherals, and portable handheld devices.

Test Mode	Mode 1: Transmitter - 1Mbps (GFSK)
	Mode 2: Transmitter - 3Mbps (8DPSK)

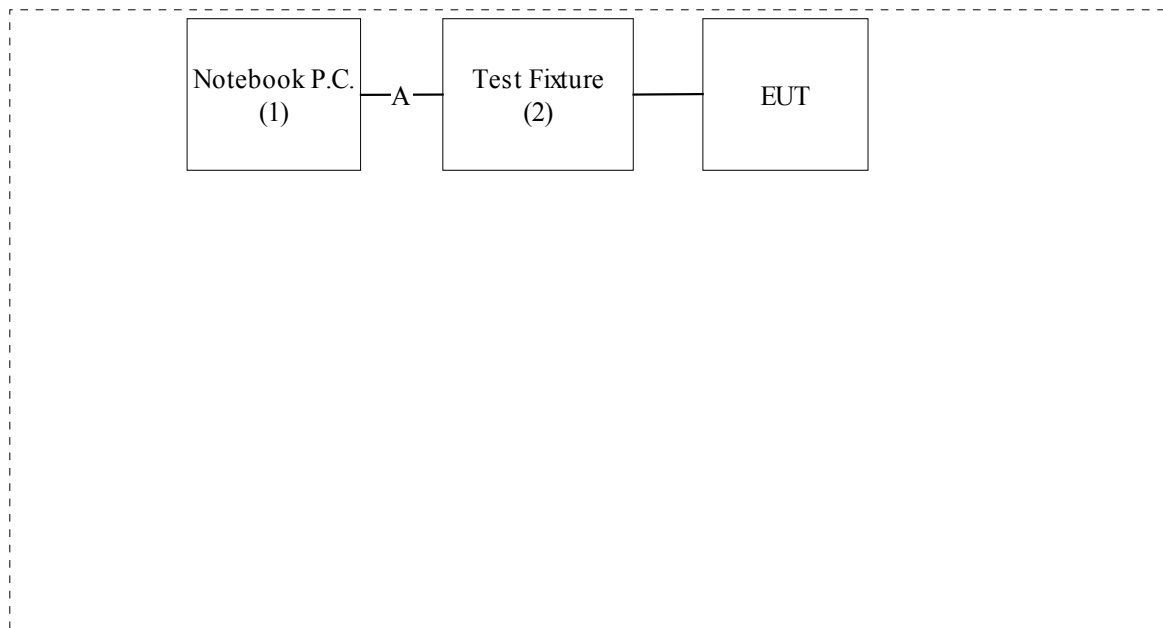
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
(1)	Notebook P.C.	ASUS	L4000L	N/A	N/A
(2)	Test Fixture	CSR	N/A	N/A	N/A

Signal Cable Type	Signal cable Description
A Print Cable	Shielded, 1.5m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- 1 Setup the EUT and simulators as shown on 1.4.
- 2 Turn on the power of all equipment.
- 3 Messages will be transmitted and received through EUT.
- 4 Test is based on the mandatory continuous transmitter.
- 5 Repeat the above procedure (3) to (4).

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	30-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Reference 31040/SIT1300F2



Accreditation on NVLAP
NVLAP Lab Code: 200533-0



Site Name: Quietek Corporation
Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,
Lin-Kou Shiang, Taipei,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com

FCC Accreditation Number: TW1014



2. Conducted Emission

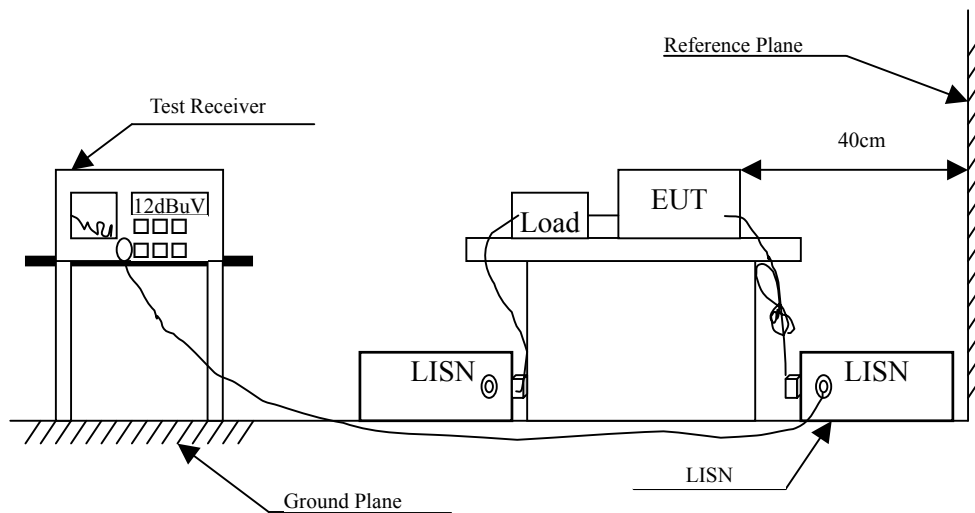
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2007	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2007	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2007	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2007	
5	No.1 Shielded Room			N/A	

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Owing to the DC operation of EUT, this test item is not performed.

3. Peak Power Output

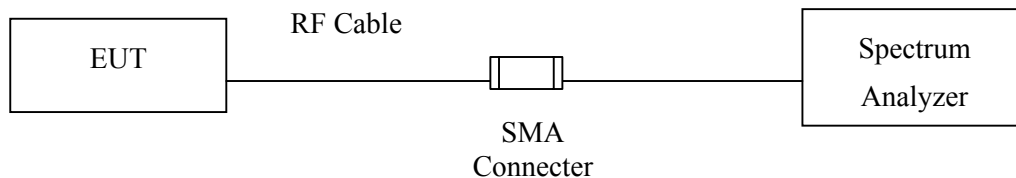
3.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2007
X	Power Sensor	Anritsu	MA2491A/034457	May, 2007

Note: 1. All equipments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

3.2. Test Setup



3.3. Limit

The maximum peak power shall be less 1Watt.

3.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Peak Power Output

Product : OgoClip Handset
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)

Cable loss: 0.45dB				
Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
Channel 00	2402.00	5.32dBm	1 Watt= 30 dBm	Pass
Channel 39	2441.00	5.46dBm	1 Watt= 30 dBm	Pass
Channel 78	2480.00	5.50dBm	1 Watt= 30 dBm	Pass

Product : OgoClip Handset
 Test Item : Peak Power Output
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)

Cable loss: 0.45dB				
Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
Channel 00	2402.00	5.42dBm	1 Watt= 30 dBm	Pass
Channel 39	2441.00	5.50dBm	1 Watt= 30 dBm	Pass
Channel 78	2480.00	5.55dBm	1 Watt= 30 dBm	Pass

4. Radiated Emission

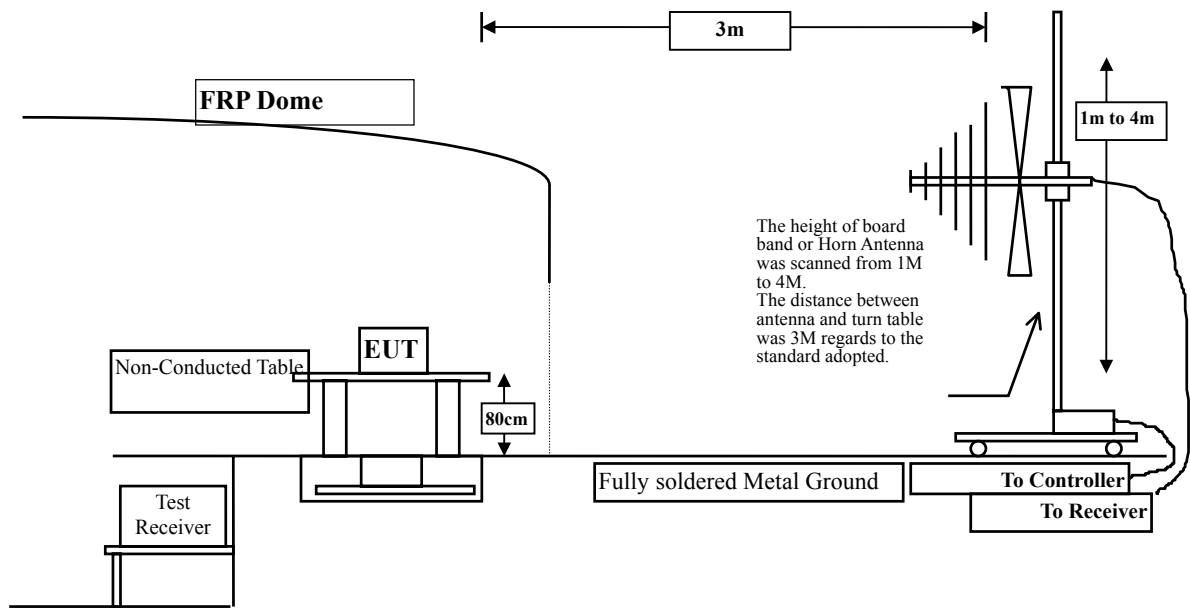
4.1. Test Equipment

The following test equipments are used during the radiated emission test:

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☐ Site # 1	Test Receiver	R & S	ESVS 10 / 834468/003	May, 2007
	Spectrum Analyzer	Advantest	R3162/ 00803480	May, 2007
	Pre-Amplifier	Advantest	BB525C/ 3307A01812	May, 2007
	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	Sep., 2007
☐ Site # 2	Test Receiver	R & S	ESCS 30 / 836858 / 022	May, 2007
	Spectrum Analyzer	Advantest	R3162 / 100803466	May, 2007
	Pre-Amplifier	Advantest	BB525C/3307A01814	May, 2007
	Bilog Antenna	SCHAFFNER	CBL6112B / 2705	May, 2007
	Horn Antenna	ETS	3115 / 0005-6160	Sep., 2007
	Pre-Amplifier	QTK	QTK-AMP-01/ 0001	May, 2007
☒ Site # 3	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
	Spectrum Analyzer	HP	E4407B / US39440758	May, 2007
	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2007
	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2007
	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2007
	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
	Pre-Amplifier	HP	8449B / 3008A01123	July, 2007

Note: 1. All equipments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

4.2. Test Setup



4.3. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

The frequency range from 30MHz to 10th harmonics is checked.

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product : OgoClip Handset
Test Item : Harmonic Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2402MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4803.950	3.663	52.540	56.202	-17.798	74.000
7205.950	9.357	36.218	45.574	-28.426	74.000
9607.950	11.842	35.507	47.349	-26.651	74.000
Average					
Detector:					
4803.950	3.663	34.390	38.053	-15.947	54.000
Vertical					
Peak Detector:					
4803.950	3.663	53.605	57.267	-16.733	74.000
7206.000	9.357	36.715	46.071	-27.929	74.000
9608.000	11.842	36.525	48.367	-25.633	74.000
Average					
Detector:					
4803.950	3.663	35.480	39.143	-14.857	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz ◦
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz ◦
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : OgoClip Handset
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2441MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4882.000	3.921	55.265	59.186	-14.814	74.000
7323.000	9.657	36.199	45.856	-28.144	74.000
9764.000	11.798	35.611	47.409	-26.591	74.000
Average					
Detector:					
4882.000	3.921	37.270	41.191	-12.809	54.000
Vertical					
Peak Detector:					
4882.000	3.921	56.385	60.306	-13.694	74.000
7323.000	9.657	35.448	45.105	-28.895	74.000
9764.000	11.798	36.206	48.004	-25.996	74.000
Average					
Detector:					
4882.000	3.921	38.140	42.061	-11.939	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : OgoClip Handset
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2480MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4960.000	4.197	59.507	63.703	-10.297	74.000
7440.000	9.951	36.067	46.018	-27.982	74.000
9920.000	11.856	35.851	47.707	-26.293	74.000
Average					
Detector:					
4960.000	4.197	40.140	44.336	-9.664	54.000
Vertical					
Peak Detector:					
4960.000	4.197	58.598	62.794	-11.206	74.000
7440.000	9.951	35.828	45.779	-28.221	74.000
9920.000	11.856	35.833	47.689	-26.311	74.000
Average					
Detector:					
4960.000	4.197	40.210	44.406	-9.594	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : OgoClip Handset
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(2402MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level	dB	dBuV/m

Horizontal

Peak Detector:

4804.000	5.317	46.810	52.127	-21.873	74.000
7206.000	11.797	41.370	53.167	-20.833	74.000
9608.000	15.759	37.267	53.025	-20.975	74.000

Average

Detector:

--

Vertical

Peak Detector:

4804.000	5.317	48.320	53.637	-20.363	74.000
7206.000	11.797	40.990	52.787	-21.213	74.000
9608.000	15.759	37.916	53.674	-20.326	74.000

Average

Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : OgoClip Handset
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2441MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4882.000	5.486	48.130	53.617	-20.383	74.000
7323.000	12.064	40.160	52.224	-21.776	74.000
9764.000	16.105	37.104	53.210	-20.790	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4882.000	5.486	50.030	55.517	-18.483	74.000
7323.000	12.064	40.960	53.024	-20.976	74.000
9764.000	16.105	37.535	53.641	-20.359	74.000
Average					
Detector:					
4804.000	5.317	37.420	42.737	-31.263	74.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : OgoClip Handset
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2480MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4960.000	5.663	49.960	55.623	-18.377	74.000
7440.000	12.335	41.430	53.765	-20.235	74.000
9920.000	16.453	36.686	53.140	-20.860	74.000
Average					
Detector:					
4960.000	5.663	36.060	41.723	-12.277	54.000
Vertical					
Peak Detector:					
4960.000	5.663	58.810	64.473	-9.527	74.000
7440.000	12.335	40.660	52.995	-21.005	74.000
9920.000	16.453	37.016	53.470	-20.530	74.000
Average					
Detector:					
4960.000	5.663	44.910	50.573	-3.427	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : OgoClip Handset
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2441MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
383.788	15.779	17.079	32.859	-13.141	46.000
479.038	18.931	12.325	31.256	-14.744	46.000
624.830	20.890	13.075	33.965	-12.035	46.000
652.044	20.804	13.948	34.752	-11.248	46.000
782.285	21.474	15.522	36.996	-9.004	46.000
912.525	22.319	10.234	32.553	-13.447	46.000
Vertical					
288.537	13.851	15.274	29.125	-16.875	46.000
362.405	16.273	12.268	28.541	-17.459	46.000
438.516	19.153	13.400	32.552	-13.448	46.000
527.635	18.897	13.478	32.375	-13.625	46.000
630.661	20.894	13.391	34.285	-11.715	46.000
912.525	24.019	11.307	35.326	-10.674	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

Product : OgoClip Handset
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
383.788	-2.466	36.055	33.589	-12.411	46.000
479.038	-0.690	34.373	33.683	-12.317	46.000
624.830	4.127	30.366	34.494	-11.506	46.000
652.044	4.011	30.580	34.592	-11.408	46.000
782.285	4.495	32.754	37.248	-8.752	46.000
912.525	4.317	28.943	33.261	-12.739	46.000
Vertical					
288.537	-7.754	37.265	29.511	-16.489	46.000
362.405	-4.783	33.962	29.179	-16.821	46.000
438.216	-1.976	34.207	32.231	-13.769	46.000
527.635	-1.068	34.669	33.601	-12.399	46.000
630.661	1.254	34.096	35.351	-10.649	46.000
912.525	5.399	29.646	35.046	-10.954	46.000

Note:

1. The reading levels below 1GHz are quasi-peak values.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

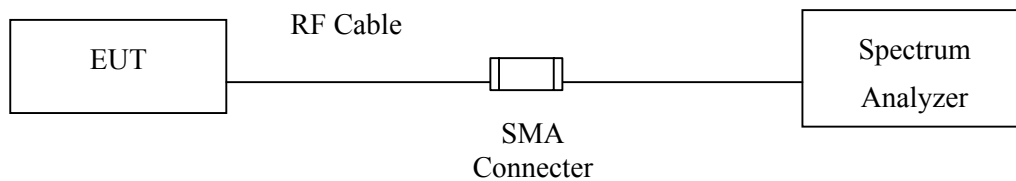
5. RF Antenna Conducted Test

5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007

Note: 1. All equipments are calibrated every one year.
2. The test instruments Marked “X” are used to measure the final test results.

5.2. Test Setup



5.3. Limits

According to FCC 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 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, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

5.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

5.5. Uncertainty

± 150Hz

5.6. Test Result of RF Antenna Conducted Test

Product : OgoClip Handset
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK) (2402MHz)

Figure Channel 00: 30MHz-1GHz

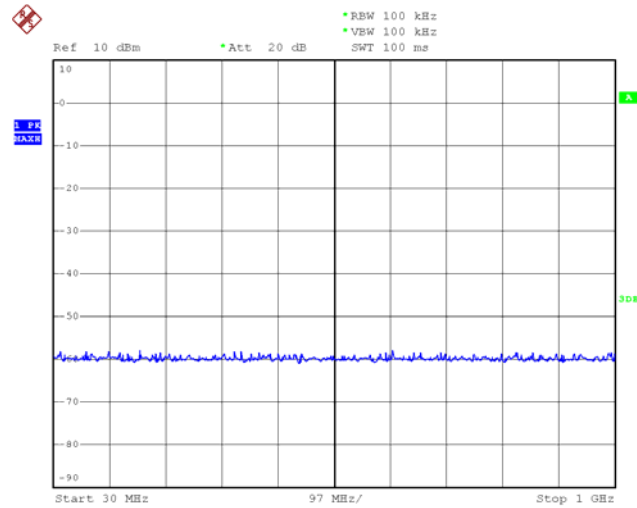
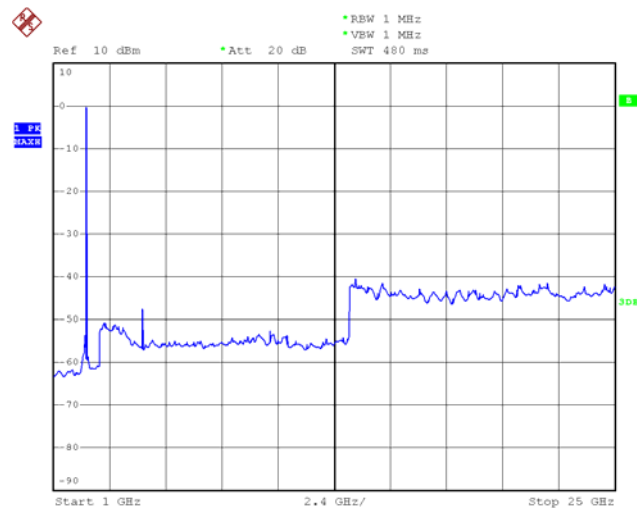


Figure Channel 00: 1GHz-25GHz



Product : OgoClip Handset
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK) (2441MHz)

Figure Channel 39: 30MHz-1GHz

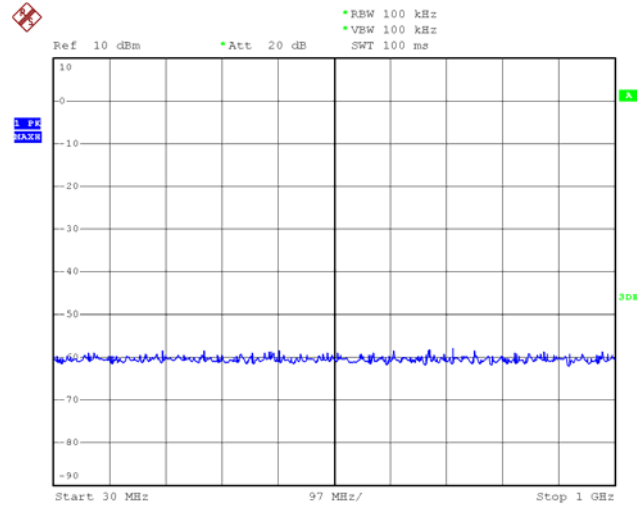
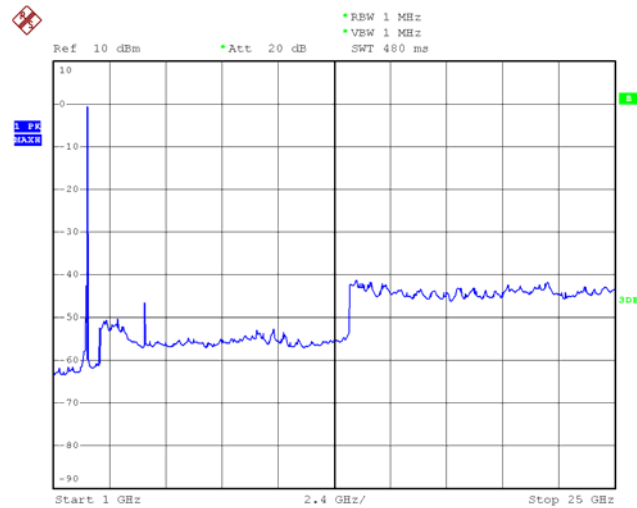


Figure Channel 00: 1GHz-25GHz



Product : OgoClip Handset
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK) (2480MHz)

Figure Channel 78: 30MHz-1GHz

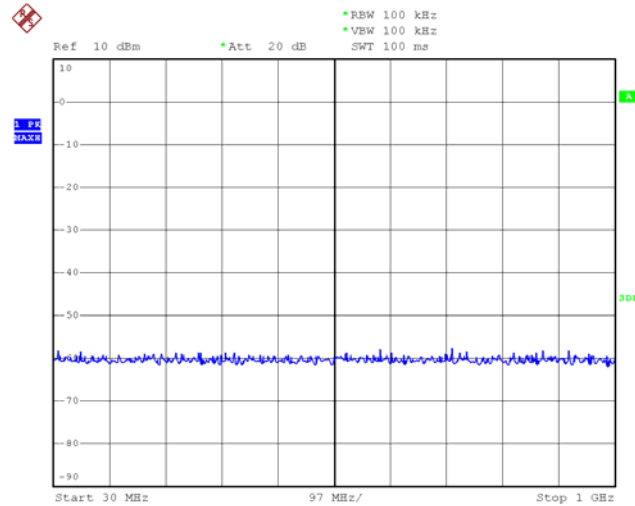
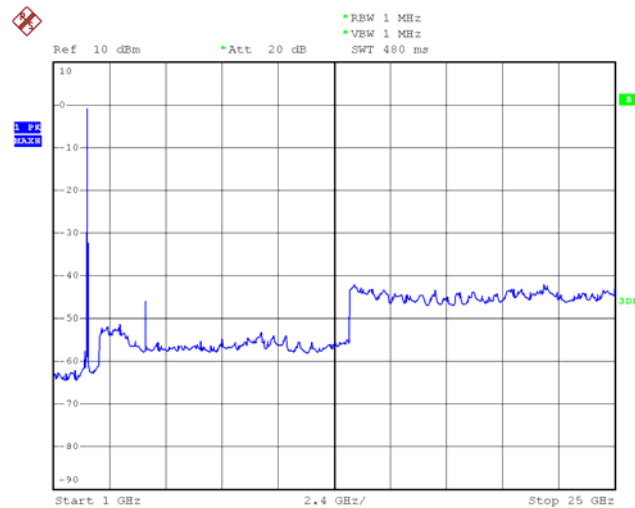


Figure Channel 00: 1GHz-25GHz



Product : OgoClip Handset
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2402MHz)

Figure Channel 00: 30MHz-1GHz

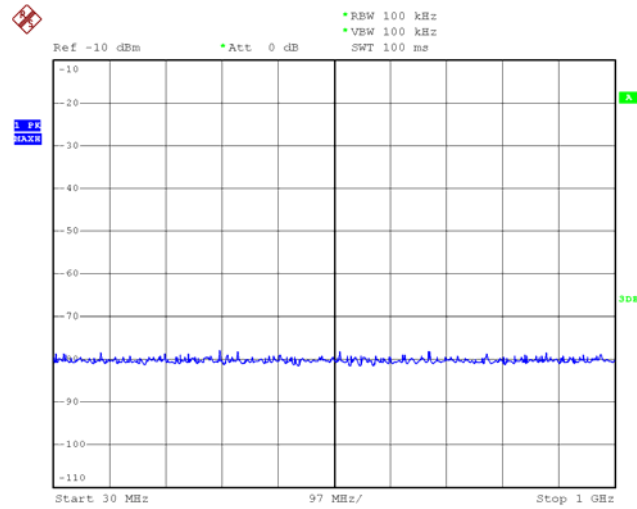
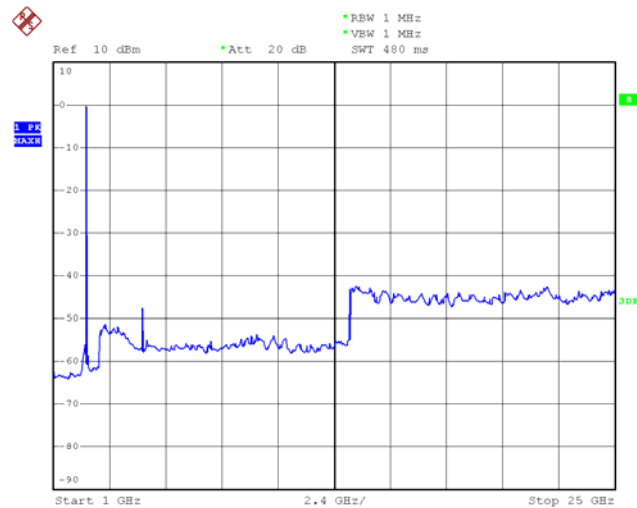


Figure Channel 00: 1GHz-25GHz



Product : OgoClip Handset
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2441MHz)

Figure Channel 39: 30MHz-1GHz

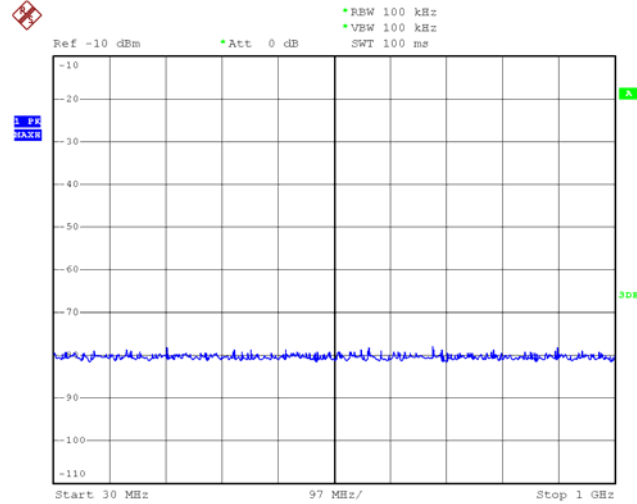
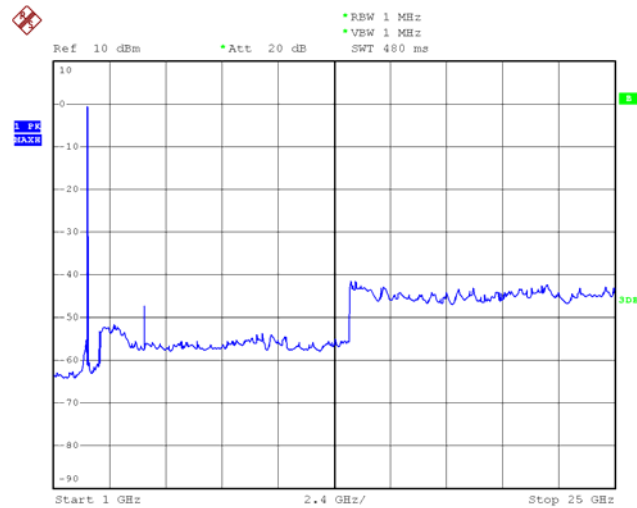


Figure Channel 00: 1GHz-25GHz



Product : OgoClip Handset
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2480MHz)

Figure Channel 78: 30MHz-1GHz

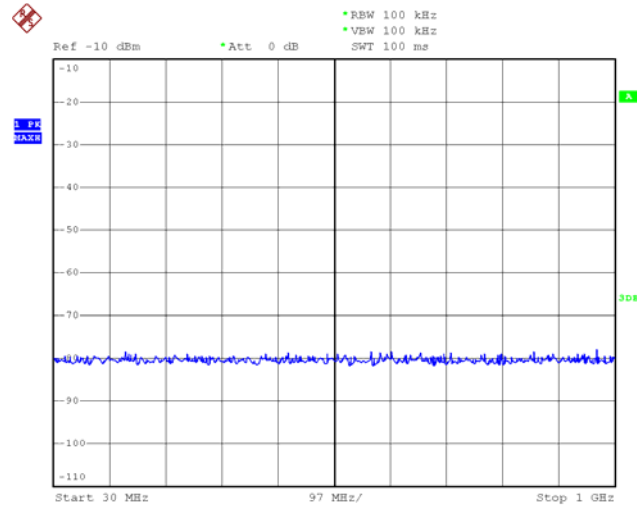
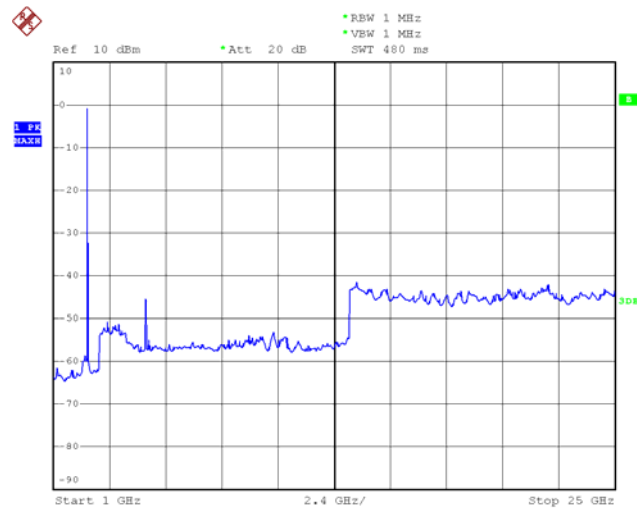


Figure Channel 00: 1GHz-25GHz



6. Band Edge

6.1. Test Equipment

The following test equipments are used during the band edge tests:

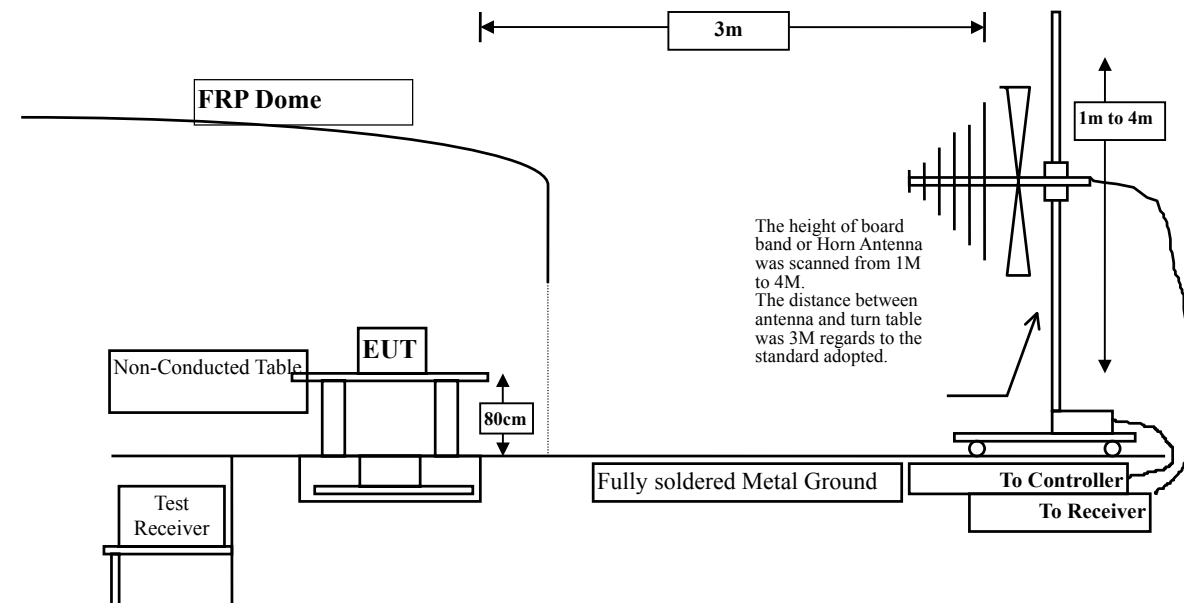
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
X	Spectrum Analyzer	HP	E4407B / US39440758	May, 2007
X	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
X	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2007
X	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2007
X	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2007
X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
X	Pre-Amplifier	HP	8449B / 3008A01123	July, 2007

Test Site Site 3

- Note:
1. All equipments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

6.2. Test Setup

RF Radiated Measurement:



6.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. 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)).

6.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz. The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

6.5. Uncertainty

± 3.9 dB above 1GHz

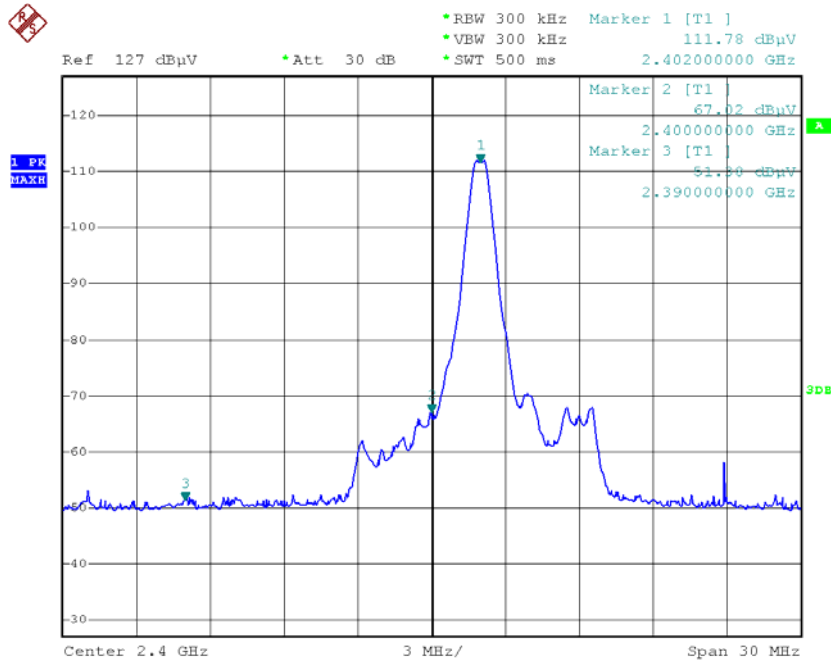
± 3.8 dB below 1GHz

6.6. Test Result of Band Edge

Product : OgoClip Handset
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2402MHz)

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
00	<2400	>20	Pass

Peak



Date: 12.OCT.2007 07:42:25

Fundamental Field Strength:

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)
Horizontal				
00 (Peak)	2401.75	-2.319	83.803	81.484
Vertical				
00 (Peak)	2402.125	-2.319	92.061	92.061

Maximum field strength

Channel No.	Emission Level (dBuV/m)	Correct (dBc)	Maximum field strength (dBuV/m)	Limit (dBuV/m)
Horizontal				
00(Peak)	81.484	60.4	21.084	74
00 (Avg)				54
Vertical				
00 (Peak)	92.061	60.4	31.661	74
00 (Avg)				54

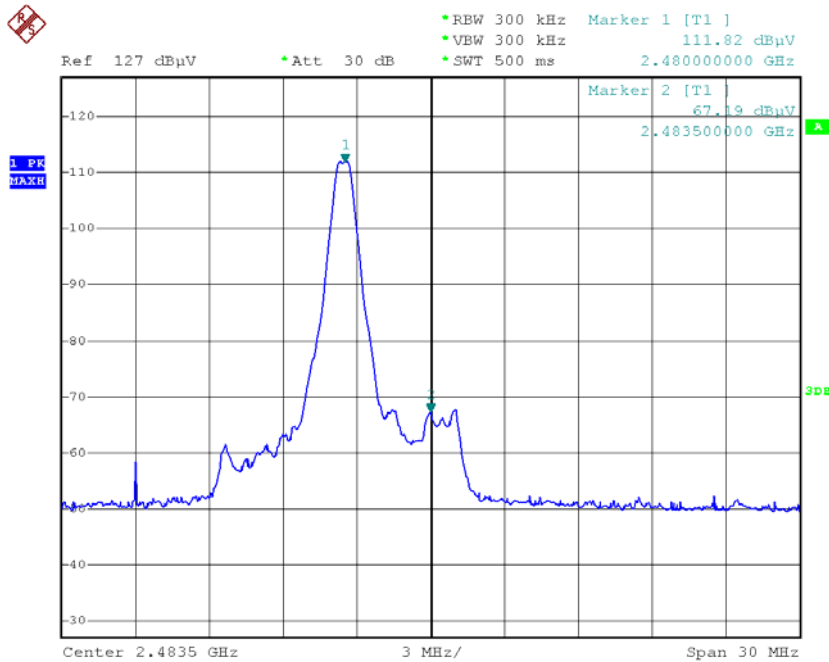
Note:

- The peak conducted emission plot shows 60.4dBc between the carrier and the maximum emission in the restricted band. The maximum fundamental field strength in the peak measurement is 92.061dBuV/m. So the maximum field strength in the restricted band is $92.061 - 60.4 = 31.661$ dBuV/m which is under Limit 74dBuV/m.

Product : OgoClip Handset
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2480MHz)

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
78	>2483.5	>20	Pass

Peak



Date: 12.OCT.2007 07:39:26

Fundamental Field Strength:

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)
Horizontal				
78 (Peak)	2479.875	-1.952	83.277	81.325
Vertical				
78 (Peak)	2479.875	-1.952	90.772	88.82

Maximum field strength

Channel No.	Emission Level (dBuV/m)	Correct (dBc)	Maximum field strength (dBuV/m)	Limit (dBuV/m)
Horizontal				
78 (Peak)	81.325	44.63	36.695	74
78 (Avg)				54
Vertical				
78 (Peak)	88.82	44.63	44.19	74
78 (Avg)				54

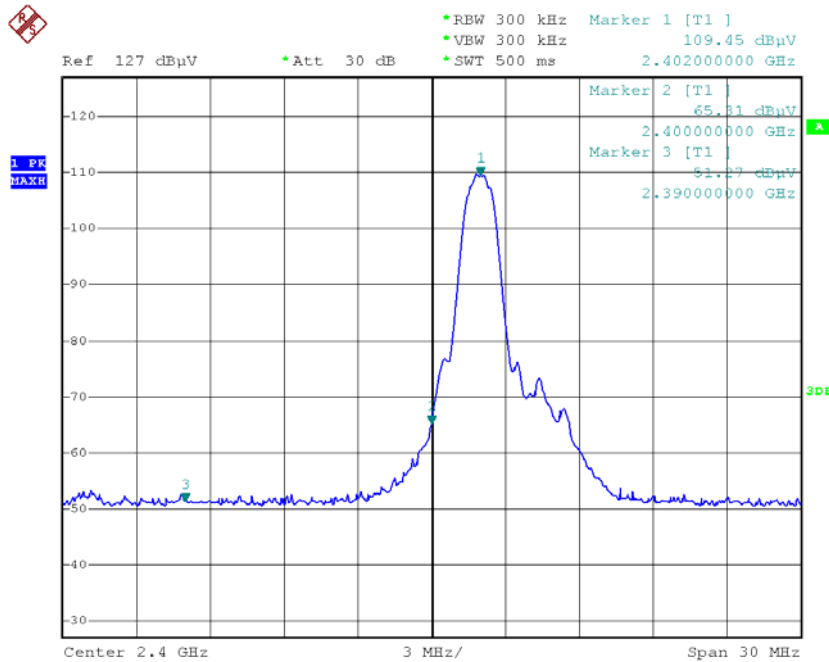
Note:

1. The peak conducted emission plot shows 44.63dBc between the carrier and the maximum emission in the restricted band. The maximum fundamental field strength in the peak measurement is 88.82dBuV/m. So the maximum field strength in the restricted band is $88.82 - 44.63 = 44.19\text{dBuV/m}$ which is under Limit 74dBuV/m.

Product : OgoClip Handset
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(2402MHz)

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
00	<2400	>20	Pass

Peak



Date: 12.OCT.2007 07:44:27

Fundamental Field Strength:

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)
Horizontal				
00 (Peak)	2402.000	-1.986	97.47	95.484
Vertical				
00 (Peak)	2402.000	-1.986	91.06	89.074

Maximum field strength

Channel No.	Emission Level (dBuV/m)	Correct (dBc)	Maximum field strength (dBuV/m)	Limit (dBuV/m)
Horizontal				
00(Peak)	95.484	58.18	37.304	74
00 (Avg)				54
Vertical				
00 (Peak)	89.074	58.18	30.894	74
00 (Avg)				54

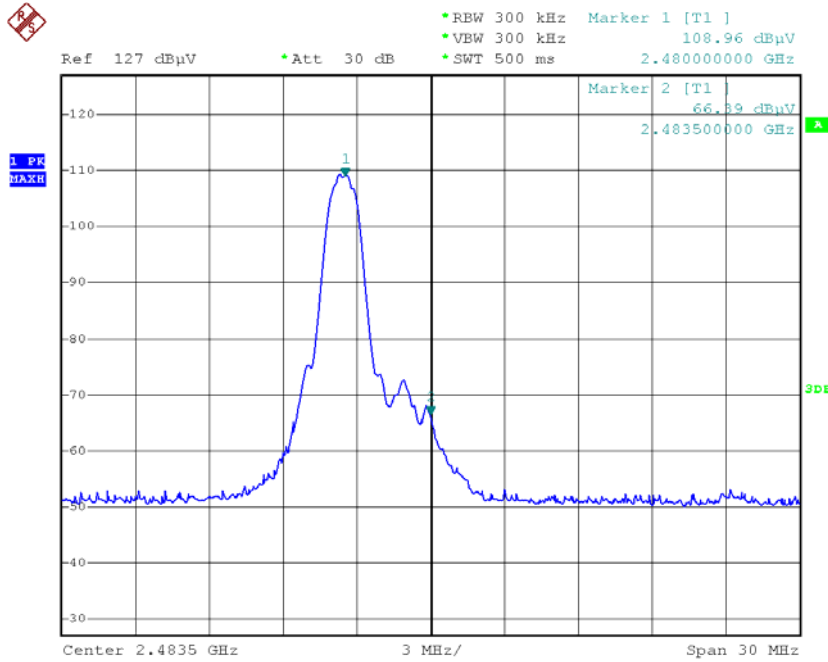
Note:

- The peak conducted emission plot shows 58.18dBc between the carrier and the maximum emission in the restricted band. The maximum fundamental field strength in the peak measurement is 95.484dBuV/m. So the maximum field strength in the restricted band is $95.484 - 58.18 = 37.304$ dBuV/m which is under Limit 74dBuV/m.

Product : OgoClip Handset
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(2480MHz)

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
78	>2483.5	>20	Pass

Peak



Date: 12.OCT.2007 07:45:20

Fundamental Field Strength:

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)
Horizontal				
78 (Peak)	2478.000	-1.629	92.89	91.26
Vertical				
78 (Peak)	2478.000	-1.629	90.92	89.291

Maximum field strength

Channel No.	Emission Level (dBuV/m)	Correct (dBc)	Maximum field strength (dBuV/m)	Limit (dBuV/m)
Horizontal				
78 (Peak)	91.26	42.57	48.69	74
78 (Avg)				54
Vertical				
78 (Peak)	89.291	42.57	46.72	74
78 (Avg)				54

Note:

1. The peak conducted emission plot shows 48.69dBc between the carrier and the maximum emission in the restricted band. The maximum fundamental field strength in the peak measurement is 91.26dBuV/m. So the maximum field strength in the restricted band is $91.26 - 42.57 = 48.69\text{dBuV/m}$ which is under Limit 74dBuV/m.

7. Channel Number

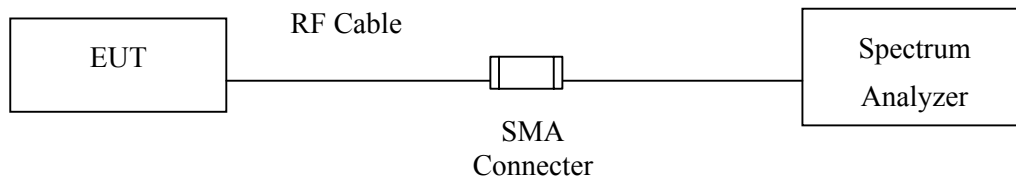
7.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	EMI Test Receiver	R&S	ESI 26 / 838786/004	May, 2007

Note: 1. All equipments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

7.2. Test Setup



7.3. Limit

Frequency hopping systems operating in the 2400-2483.5 MHz bands shall use at least 75 hopping frequencies.

7.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

7.5. Uncertainty

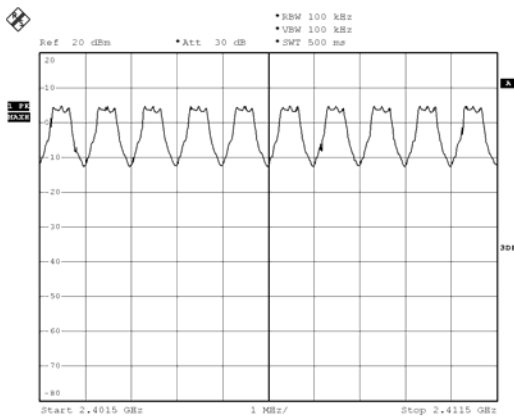
N/A

7.6. Test Result of Channel Number

Product : OgoClip Handset
 Test Item : Channel Number
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)

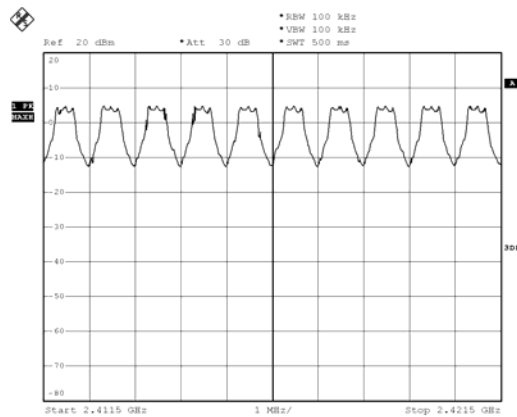
Frequency Range (MHz)	Measurement (Hopping Channel)	Required Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

2402-2411MHz



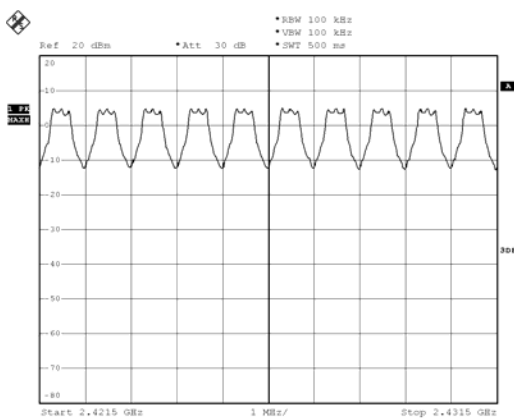
Date: 11.OCT.2007 18:52:11

2412-2421MHz



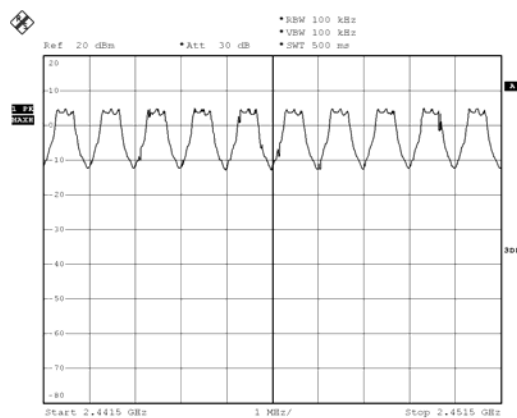
Date: 11.OCT.2007 18:53:49

2422-2431MHz



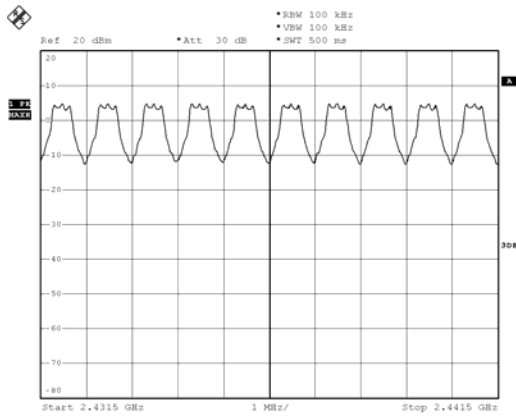
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2432-2441MHz



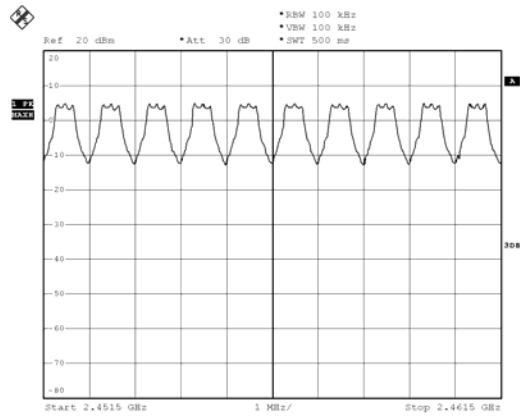
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2442-2451MHz



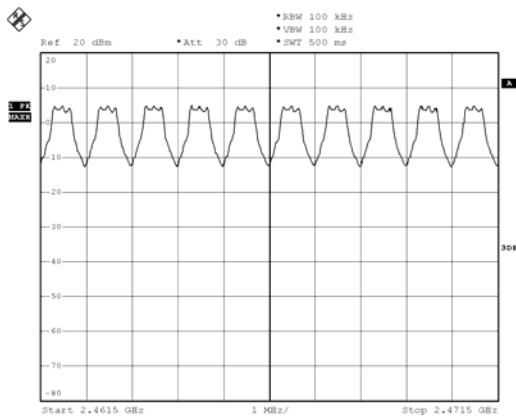
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2452-2461MHz



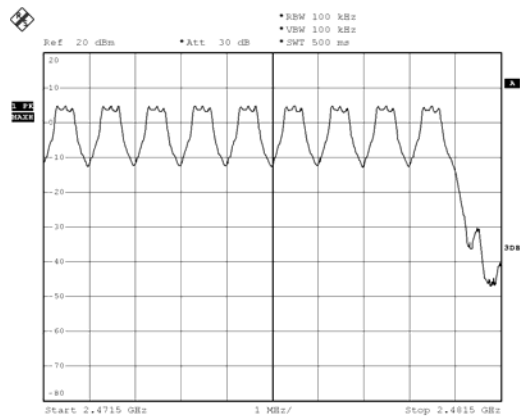
Date: 11.OCT.2007 19:09:53

2462-2471MHz



Date: 11.OCT.2007 19:11:58

2472-2480MHz

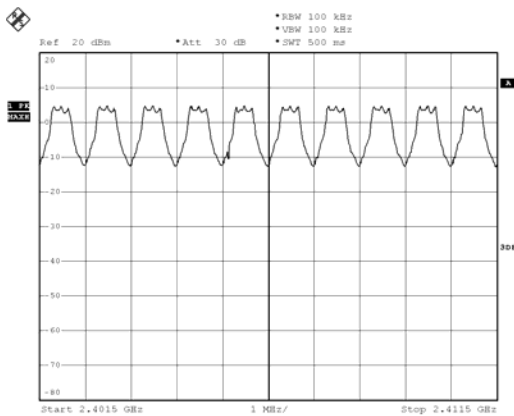


Date: 11.OCT.2007 19:14:04

Product : OgoClip Handset
 Test Item : Channel Number
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)

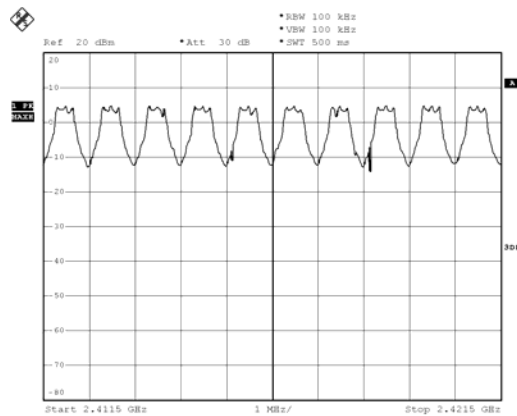
Frequency Range (MHz)	Measurement (Hopping Channel)	Required Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

2402-2411MHz



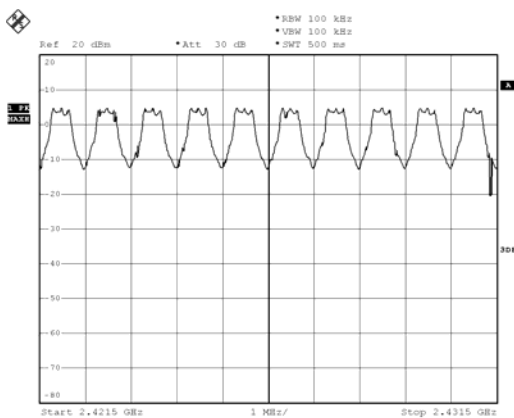
Date: 11.OCT.2007 19:17:06

2412-2421MHz



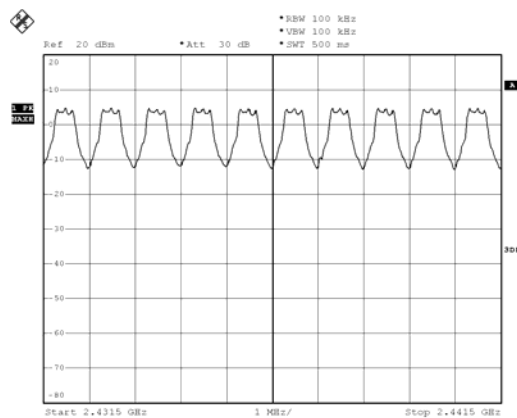
Date: 11.OCT.2007 19:18:51

2422-2431MHz



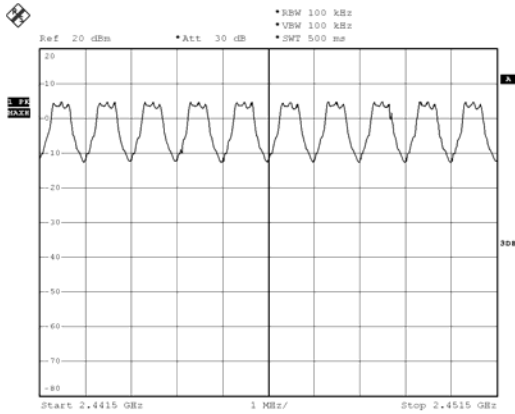
Date: 11.OCT.2007 19:22:49

2432-2441MHz



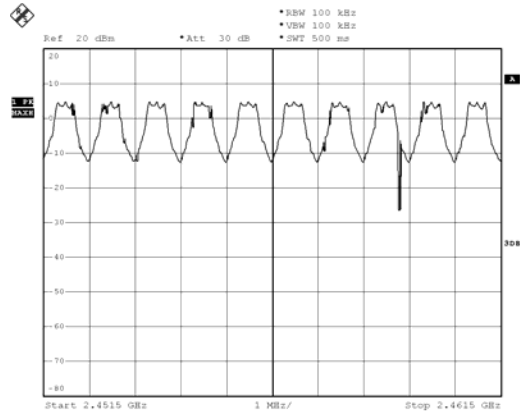
Date: 11.OCT.2007 19:25:02

2442-2451MHz



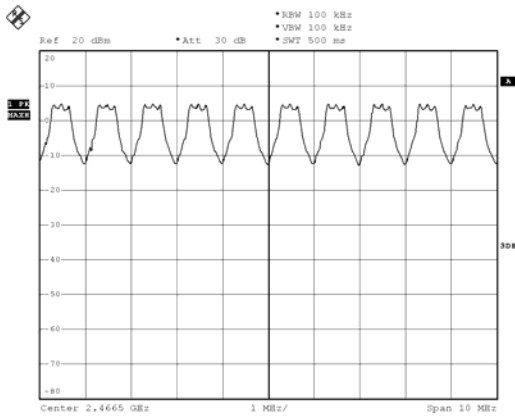
Date: 11.OCT.2007 19:26:45

2452-2461MHz



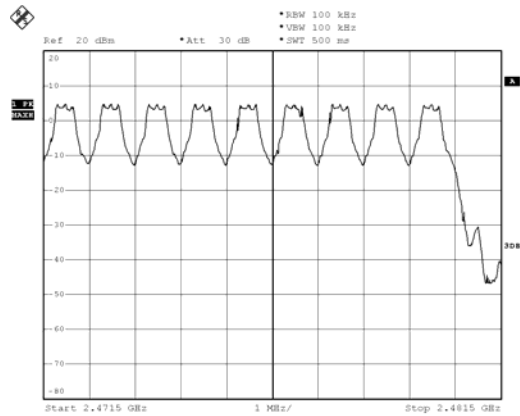
Date: 11.OCT.2007 19:28:54

2462-2471MHz



Date: 11.OCT.2007 19:31:48

2472-2480MHz



Date: 11.OCT.2007 19:33:33

8. Channel Separation

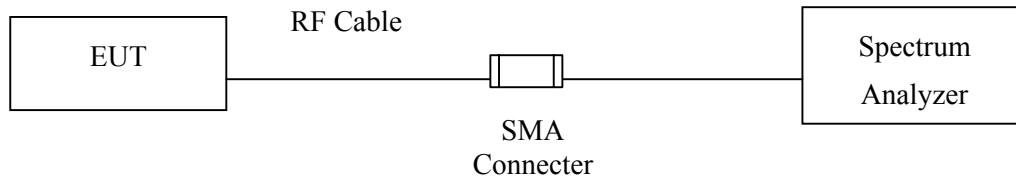
8.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	EMI Test Receiver	R&S	ESI 26 / 838786/004	May, 2007

- Note:
1. All equipments are calibrated every one year.
 2. The test instruments mark by “X” are used to measure the final test results.

8.2. Test Setup



8.3. Limit

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.

8.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

8.5. Uncertainty

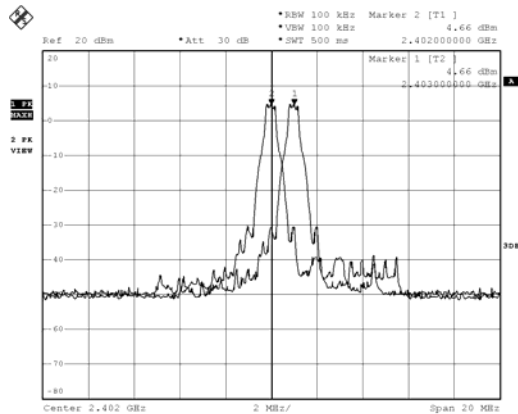
$\pm 150\text{Hz}$

8.6. Test Result of Channel Separation

Product : OgoClip Handset
 Test Item : Channel Separation
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)

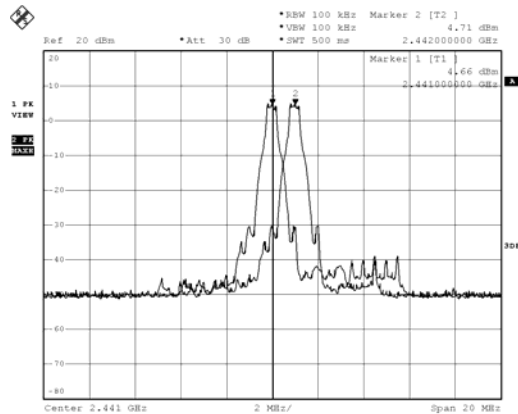
Frequency (MHz)	Measurement Level (MHz)	Required Limit	Result
2402	1.00	>25 kHz or 2/3 * 20 dB BW	Pass
2441	1.00	>25 kHz or 2/3 * 20 dB BW	Pass
2480	1.00	>25 kHz or 2/3 * 20 dB BW	Pass

Channel 00 2402MHz



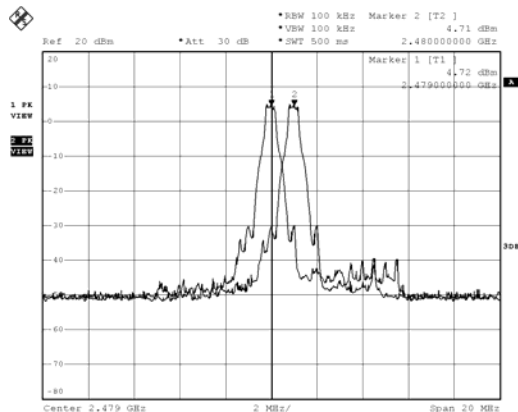
Date: 11.OCT.2007 18:34:41

Channel 39 2441MHz



Date: 11.OCT.2007 18:36:44

Channel 78 2480 MHz

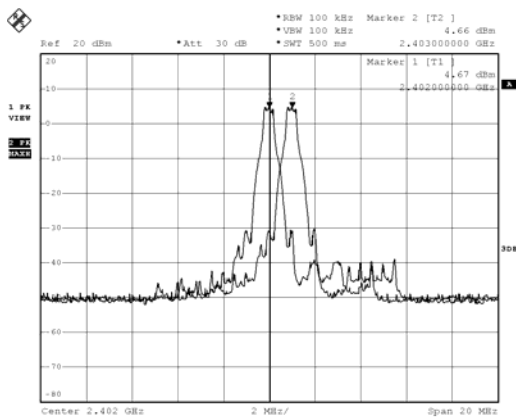


Date: 11.OCT.2007 18:39:28

Product : OgoClip Handset
 Test Item : Channel Separation
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)

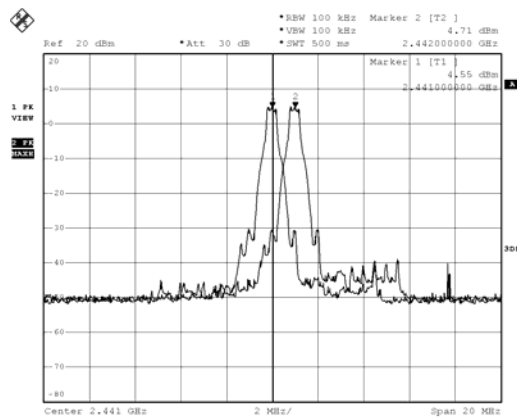
Frequency (MHz)	Measurement Level (MHz)	Required Limit	Result
2402	1.00	>25 kHz or 2/3 * 20 dB BW	Pass
2441	1.00	>25 kHz or 2/3 * 20 dB BW	Pass
2480	1.00	>25 kHz or 2/3 * 20 dB BW	Pass

Channel 00 2402MHz



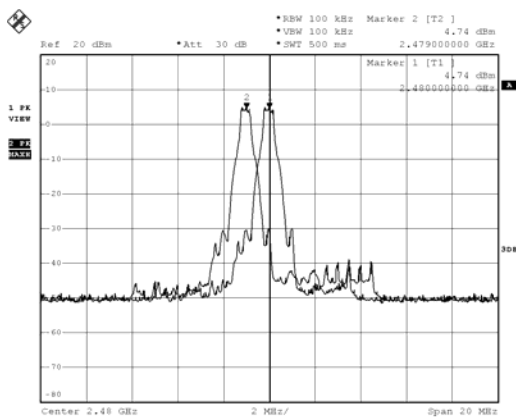
Date: 11.OCT.2007 18:41:11

Channel 39 2441MHz



Date: 11.OCT.2007 18:46:31

Channel 78 2480 MHz



Date: 11.OCT.2007 18:48:28

9. Dwell Time

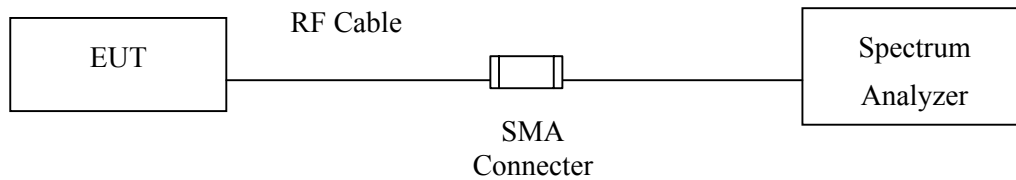
9.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	EMI Test Receiver	R&S	ESI 26 / 838786/004	May, 2007

Note: 1. All equipments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

9.2. Test Setup



9.3. Limit

The dwell time shall be the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

9.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

9.5. Uncertainty

± 25msec

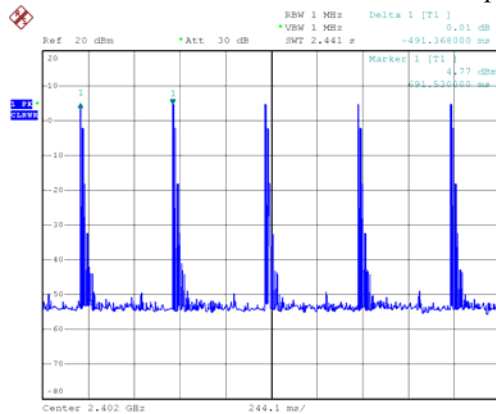
9.6. Test Result of Dwell Time

Product : OgoClip Handset
 Test Item : Dwell Time
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(Channel 00,39,78 –DH5)

Channel No.	Frequency (MHz)	Time Interval between hops (ms)	Transmission Time (us)	Dwell Time (ms)	Limit (ms)	Result
00	2402	491.368	3092	198.847	400	Pass
39	2441	491.368	3108	199.876	400	Pass
78	2480	492.000	3057	196.343	400	Pass

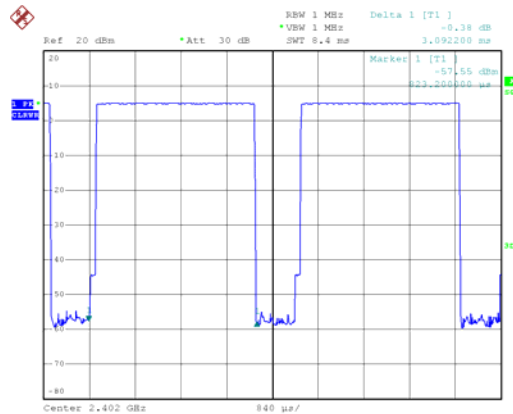
Note: Dwell Time = 79 * 400 / Time Interval Between Hops * Transmission Time / 1000

CH 2402MHz Time Interval between hops



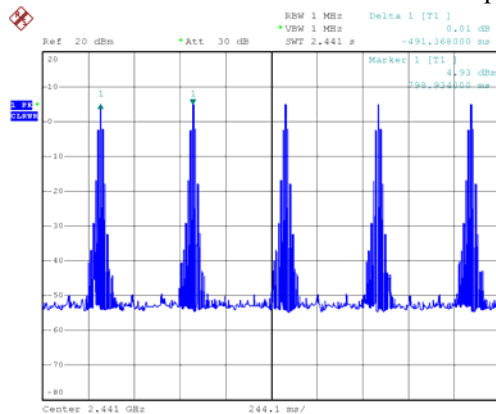
Date: 12.OCT.2007 04:55:07

Transmission Time



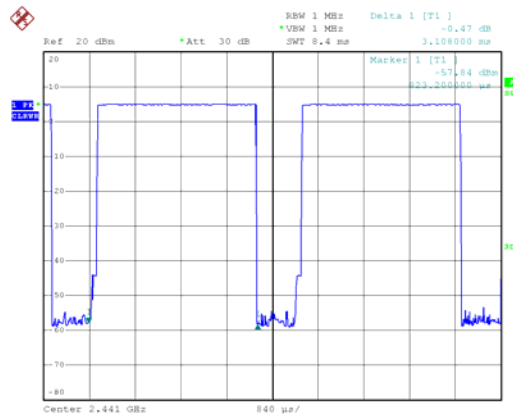
Date: 12.OCT.2007 04:47:16

CH 2441MHz Time Interval between hops



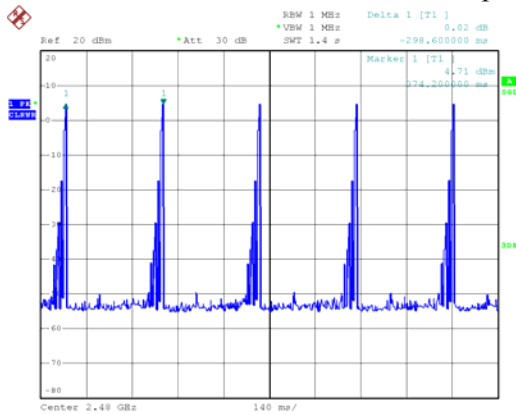
Date: 12.OCT.2007 04:54:15

Transmission Time



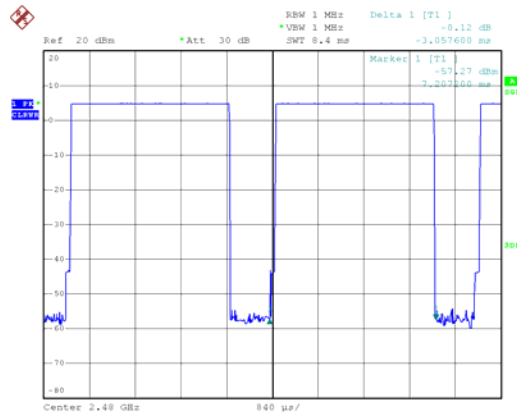
Date: 12.OCT.2007 04:48:31

CH 2480MHz Time Interval between hops



Date: 12.OCT.2007 04:52:22

Transmission Time



Date: 12.OCT.2007 04:49:41

Note:

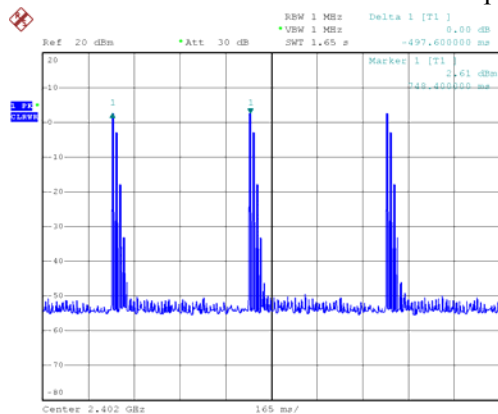
The dwell times of the packet type DH5 are tested.

Product : OgoClip Handset
 Test Item : Dwell Time
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(Channel 00,39,78 –DH5)

Channel No.	Frequency (MHz)	Time Interval between hops (ms)	Transmission Time (us)	Dwell Time (ms)	Limit (ms)	Result
00	2402	497.6	3128	198.6430868	400	Pass
39	2441	497.6	3230	205.1205788	400	Pass
78	2480	494.3	3162	202.1428282	400	Pass

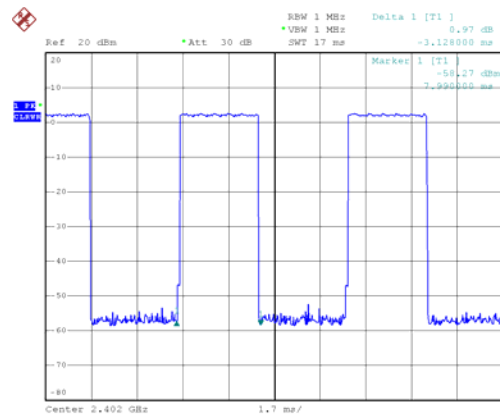
Note: Dwell Time = 79 * 400 / Time Interval Between Hops * Transmission Time / 1000

CH 2402MHz Time Interval between hops



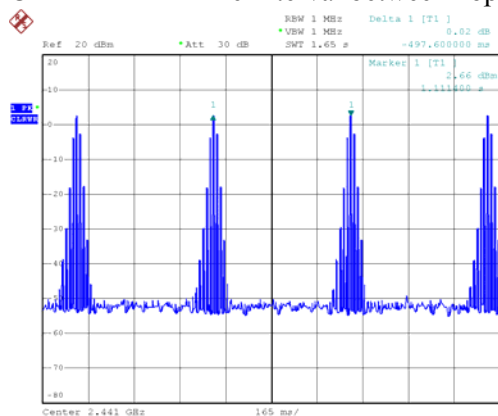
Date: 12.OCT.2007 05:04:08

Transmission Time



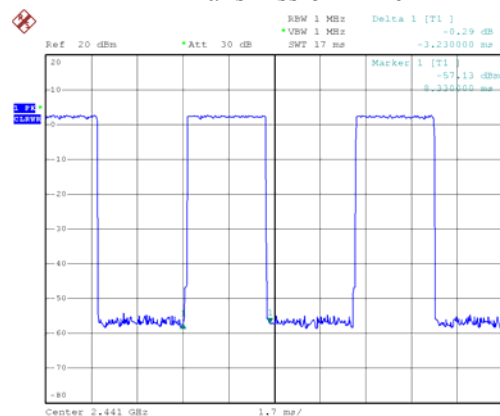
Date: 12.OCT.2007 04:59:14

CH 2441MHz Time Interval between hops



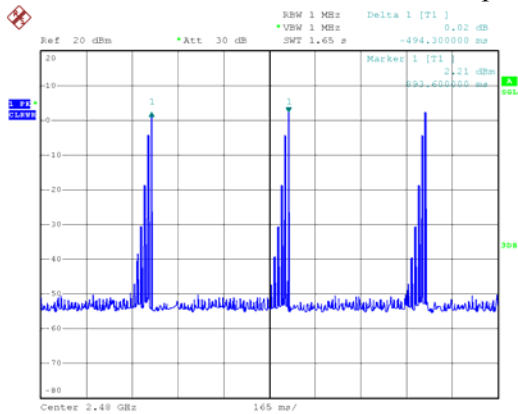
Date: 12.OCT.2007 05:03:40

Transmission Time



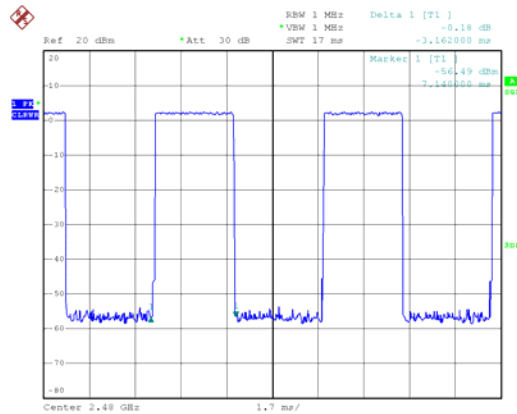
Date: 12.OCT.2007 05:00:14

CH 2480MHz Time Interval between hops



Date: 12.OCT.2007 05:02:40

Transmission Time



Date: 12.OCT.2007 05:01:47

Note:

The dwell times of the packet type DH5 are tested.

10. Occupied Bandwidth

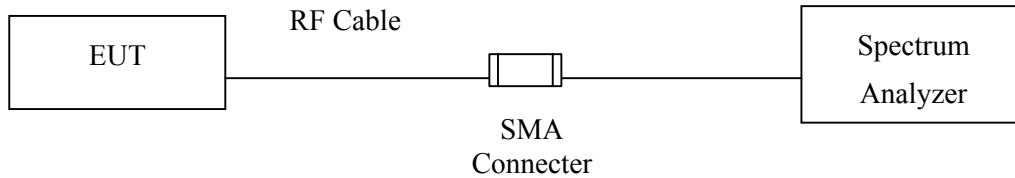
10.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	EMI Test Receiver	R&S	ESI 26 / 838786/004	May, 2007

Note: 1. All equipments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

10.2. Test Setup



10.3. Limits

N/A

10.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

10.5. Uncertainty

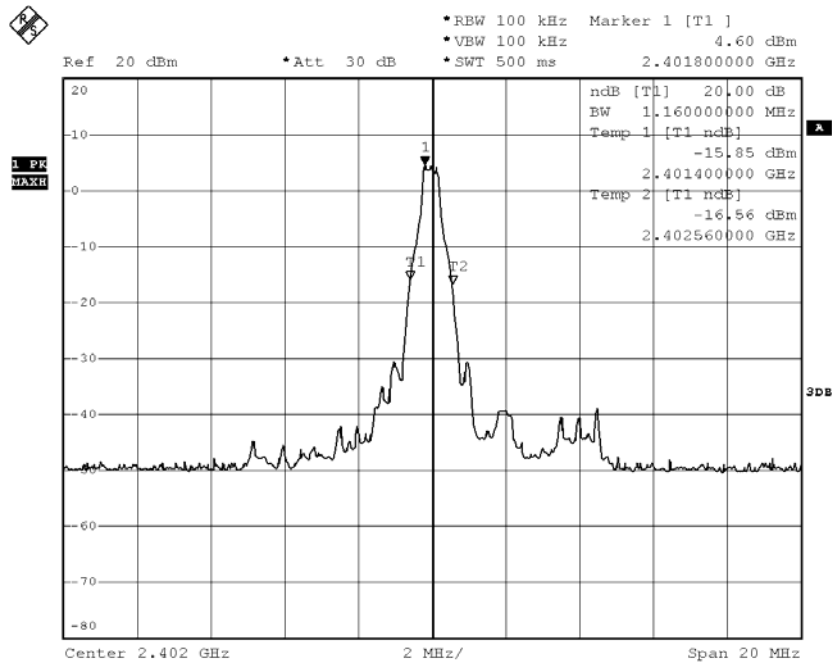
± 150Hz

10.6. Test Result of Occupied Bandwidth

Product : OgoClip Handset
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2402MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	1160	--	NA

Figure Channel 00:

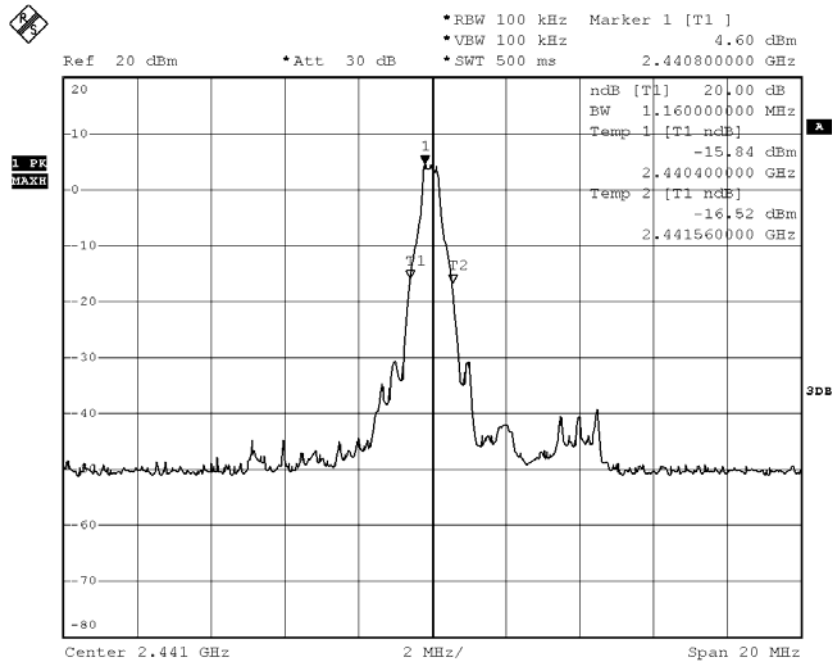


Date: 11.OCT.2007 19:37:14

Product : OgoClip Handset
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2441MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
39	2441	1160	--	NA

Figure Channel 39:

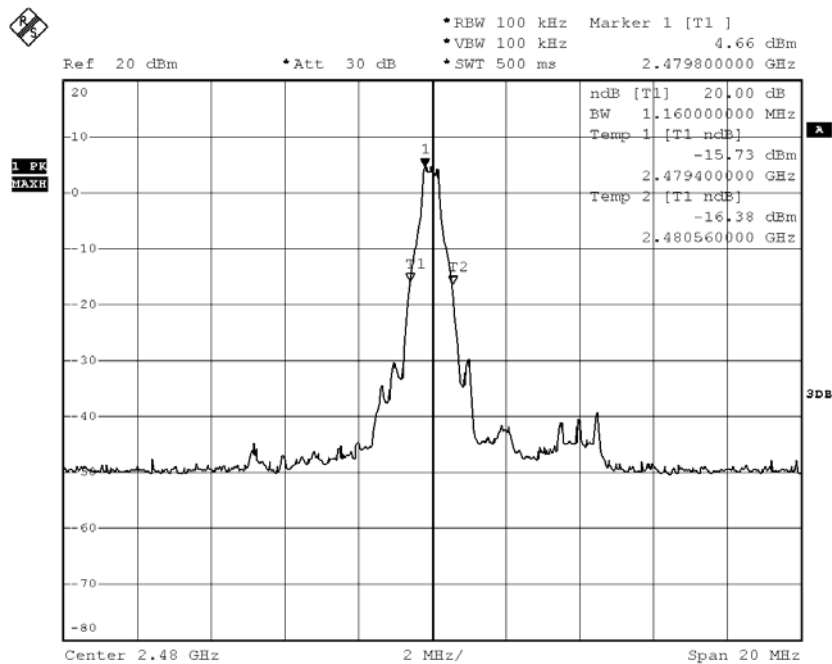


Date: 11.OCT.2007 19:37:59

Product : OgoClip Handset
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2480MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
78	2480	1160	--	NA

Figure Channel 78:

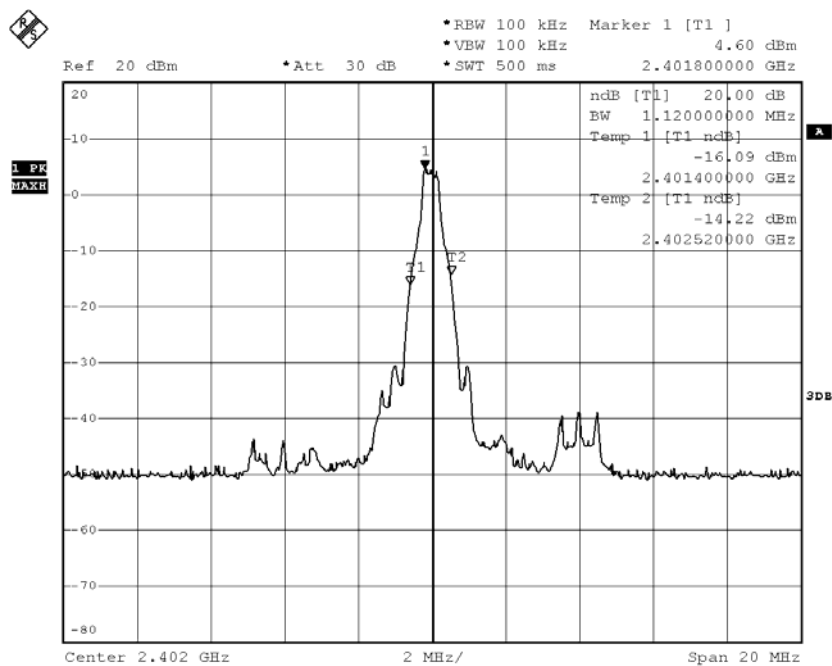


Date: 11.OCT.2007 19:41:01

Product : OgoClip Handset
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2402MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	1120	--	NA

Figure Channel 00:

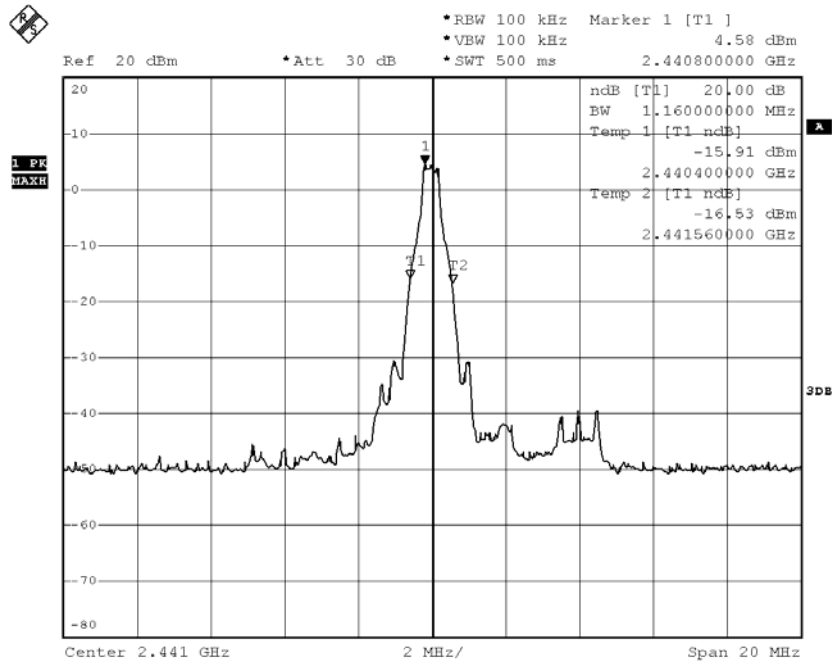


Date: 11.OCT.2007 19:43:42

Product : OgoClip Handset
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2441MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
39	2441	1160	--	NA

Figure Channel 39:

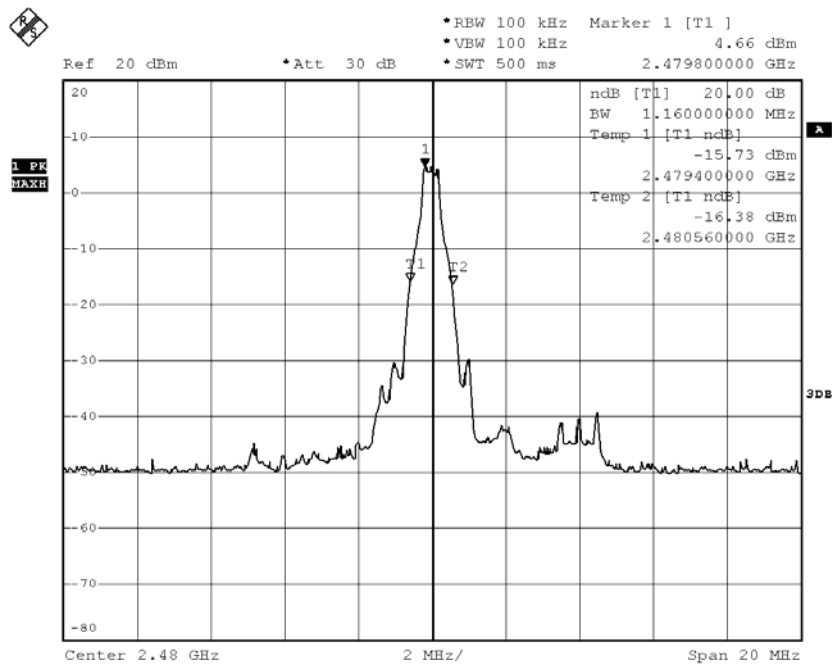


Date: 11.OCT.2007 19:42:52

Product : OgoClip Handset
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(2480MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
78	2480	1160	--	NA

Figure Channel 78:



Date: 11.OCT.2007 19:41:21

11. EMI Reduction Method During Compliance Testing

No modification was made during testing.