



Test Report

Product Name : GNT-1250
Model No. : GPS-1250
FCC ID. : TJUGPS1250

Applicant : YOUNGTEK ELECTRONICS CORP.

Address : 4F, NO.5, Technology Rd., Science-Based Industrial Park,
Hsinchu 300, Taiwan

Date of Receipt : 2007/04/24
Issued Date : 2007/06/26
Report No. : 074H075-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.

Test Report Certification

Issued Date : 2007/06/26

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Product Name : GNT-1250
 Applicant : YOUNGTEK ELECTRONICS CORP.
 Address : 4F, NO.5, Technology Rd., Science-Based Industrial Park,
 Hsinchu 300, Taiwan
 Manufacturer : YOUNGTEK ELECTRONICS CORP.
 Model No. : GPS-1250
 FCC ID. : TJUGPS1250
 Rated Voltage : AC 120 V / 60 Hz
 EUT Voltage : AC 120 V / 60 Hz
 Trade Name : YTEC
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247:2006
 Test Result : Complied

The test results relate only to the samples tested.

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Documented By : Demi Chang

(Demi Chang)

Tested By : Halu Chung

(Halu Chung)

Approved By : Roy Wang

(Roy Wang)

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1. General Information

1.1. EUT Description

Product Name	GNT-1250
Trade Name	YTEC
Model No.	GPS-1250
Frequency Range	2402~2480MHz
Channel Number	79
Type of Modulation	FHSS
Channel Control	Auto
Antenna Type	Micro-chip Antenna
Antenna Gain	-0.5dBi

Component	
Earphone	Non-Shielded, 67.5m
USB Charger Cable	Shielded, 142.5m

Working 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 hop sets 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 GNT-1250 included a 2.4GHz receiving function, and 2.4GHz transmitting function.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. Regards to the frequency band operation; the lowest 、 middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 074H075-RFUSP01V02 under Declaration of Conformity.

1.2. Operational Description

The EUT is 2.4GHz Bluetooth GPS Receiver which is a total solution GPS receiver with Bluetooth. After paired with your PDA or smart phone, start your navigation software. Open GPS connection in your navigation software.

When we power on EUT, the GPS function is enable, then we have to wait a few seconds for Bluetooth to self-test before a connection is established. Wait until the Bluetooth light begins to flash (once a second). A Bluetooth link can now be established between the EUT and PDA or Notebook.

1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

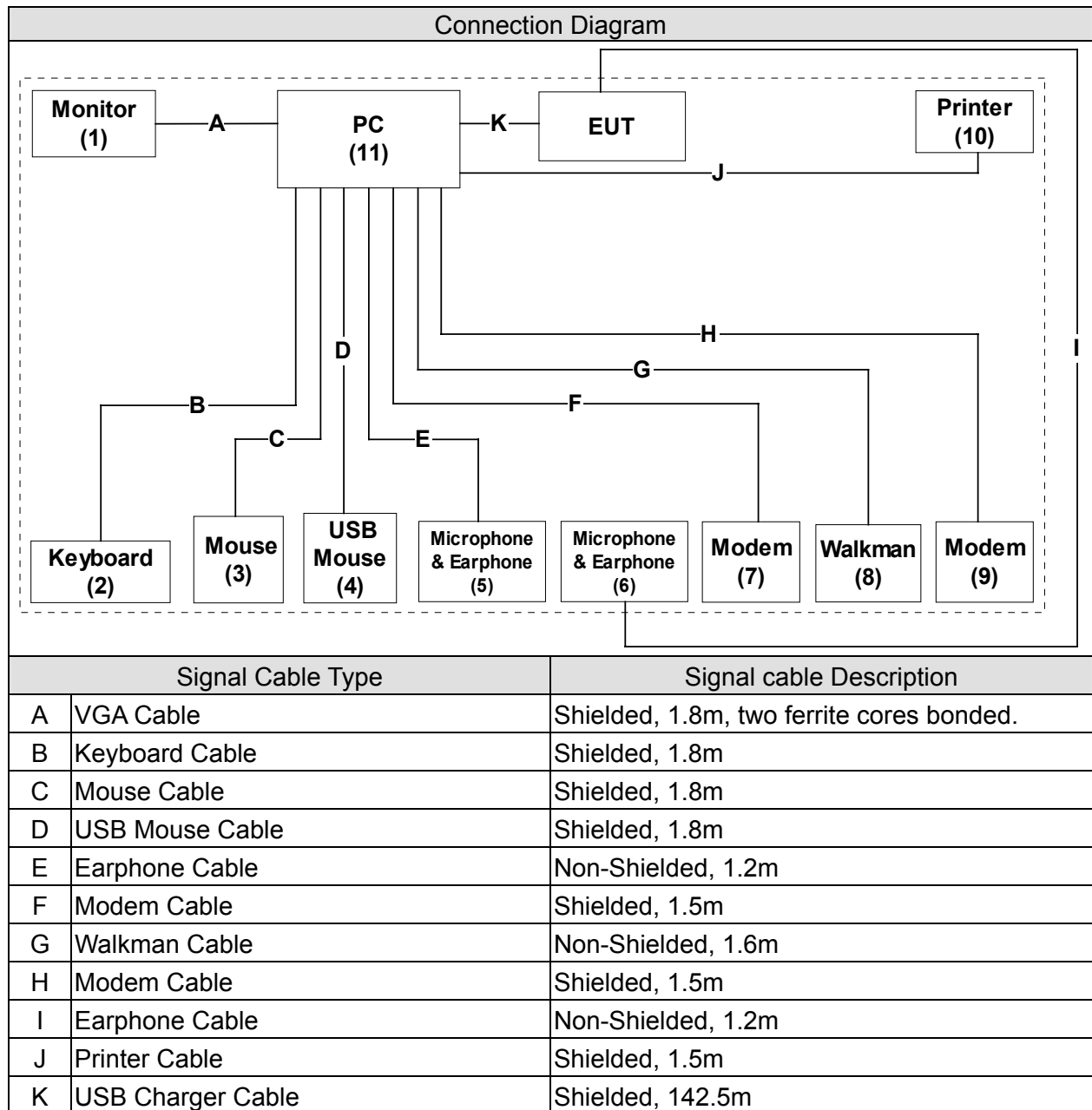
Pre-Test Mode	
EMI	Mode 1: Transmit
Final Test Mode	
EMI	Mode 1: Transmit

1.4. Tested System Details

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

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Monitor	CHI MEI	A170E1-09	3UC120955SA1273	Non-Shielded, 1.8m
2	Keyboard	ACER	6311-TW2C	N/A	--
3	Mouse	Logitech	M-SBF83	HCA52200080	--
4	USB Mouse	Logitech	M-UV83	LZE35006091	--
5	Microphone & Earphone	Ronald	MOE060	N/A	--
6	Microphone & Earphone	Ronald	MOE060	N/A	--
7	Modem	ACEEX	DM-1414	980033034	Non-Shielded, 1.6m
8	Walkman	AIWA	US-J202	I20201	--
9	Modem	ACEEX	DM-1414	960011397	Non-Shielded, 1.6m
10	Printer	HP	C2642A	MY75L1D2XN	Non-Shielded, 0.7m
11	PC	HP	DTPC27	SG21200950	Non-Shielded, 1.8m

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.5.
2	Turn on the power of all equipment.
3	Verify the model operation.
4	Repeat the above procedure (3) to (4).

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Channel Of Number (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	53
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Channel Separation (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	58
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Dwell Time (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	58
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	59
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	58
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description:

January 24, 2005 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520



Accredited by CNLA
Accreditation Number: 1313
Effective through: September 27, 2007



1313
ILAC MRA

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2007



Site Name: Quietek Corporation

Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,
Chiung-Lin, Hsin-Chu County,
Taiwan, R.O.C.
TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Conducted Emission

2.1. Test Equipment

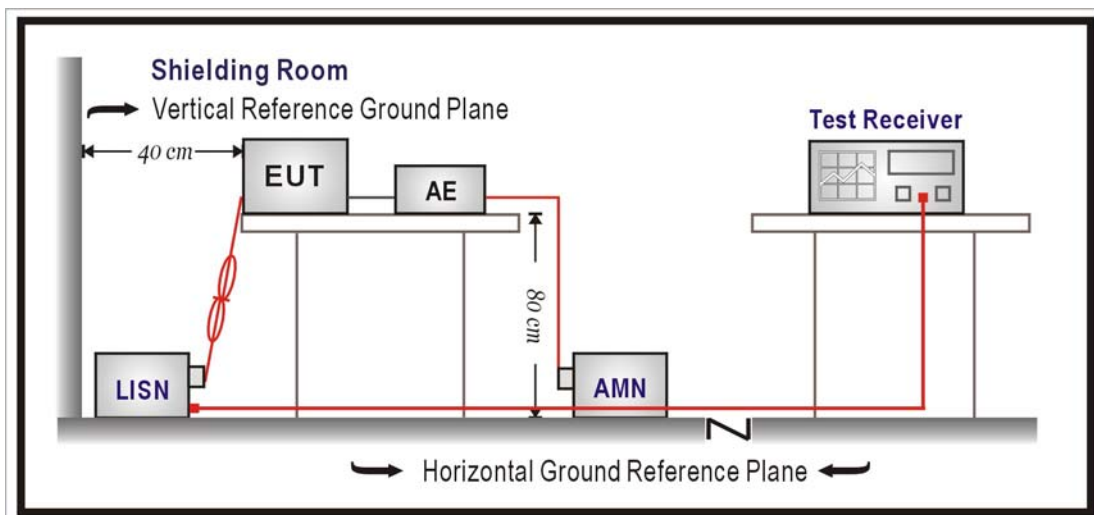
The following test equipment are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
4-Wire ISN	R & S	ENY 41	837032/001	2007/04/15
Artificial Mains Network	R & S	ENV4200	848411/010	2007/03/13
Double 2-Wire ISN	R & S	ENY 22	835354/008	2007/04/15
LISN	R & S	ESH3-Z5	825562/002	2007/03/31
Pulse Limiter	R & S	ZSH3Z2	357.8810.54	2006/07/19
Test Receiver	R & S	ESCS 30	100122	2007/02/21

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	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

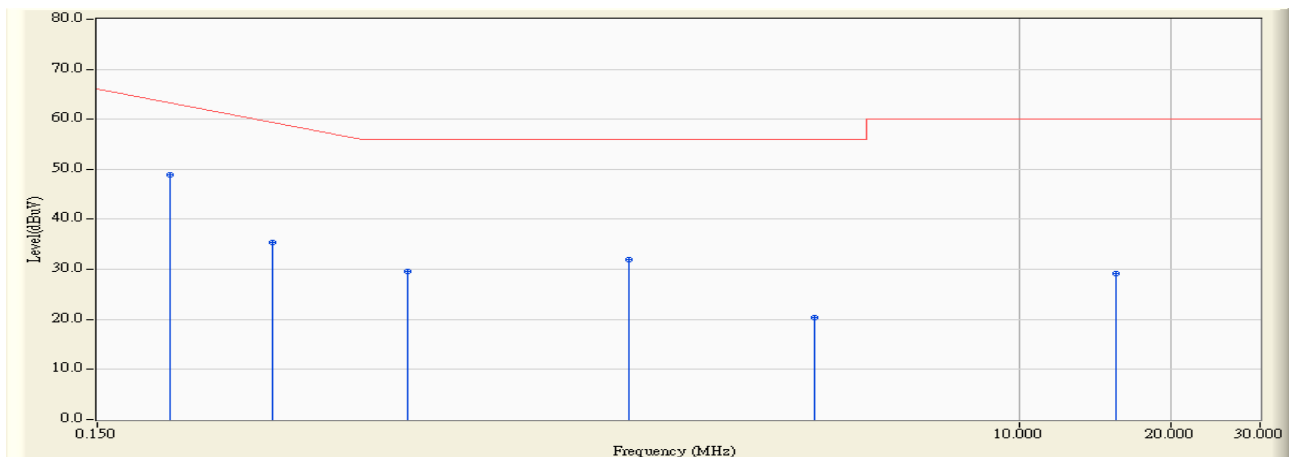
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers 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 of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2006

2.6. Test Result

Site : QuieTek Shielding Room3	Time : 2007/04/16 - 19:21
Limit : CISPR_B_00M_QP	Margin : 0
EUT : GNT-1250	Probe : SR3_LISN(16A) - Line1
Power : AV 120V / 60Hz	Note : TX

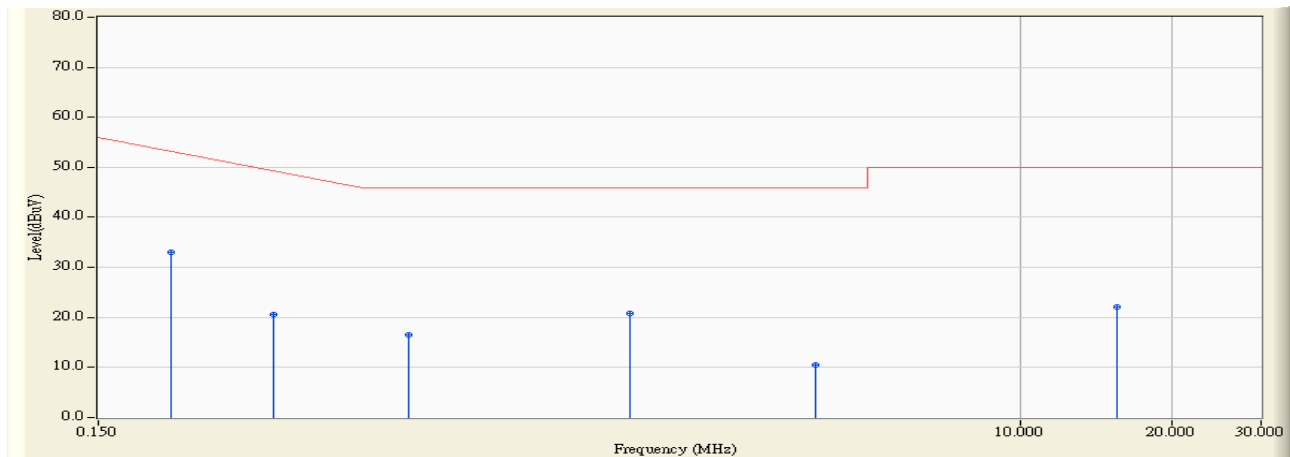


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.209	0.449	48.420	48.868	-15.446	64.314	QUASIPeAK
2		0.333	0.354	34.970	35.324	-25.447	60.771	QUASIPeAK
3		0.615	0.310	29.390	29.700	-26.300	56.000	QUASIPeAK
4		1.689	0.370	31.570	31.940	-24.060	56.000	QUASIPeAK
5		3.941	0.430	20.000	20.430	-35.570	56.000	QUASIPeAK
6		15.594	0.580	28.680	29.260	-30.740	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room3	Time : 2007/04/16 - 19:21
Limit : CISPR_B_00M_AV	Margin : 0
EUT : GNT-1250	Probe : SR3_LISN(16A) - Line1
Power : AV 120V / 60Hz	Note : TX

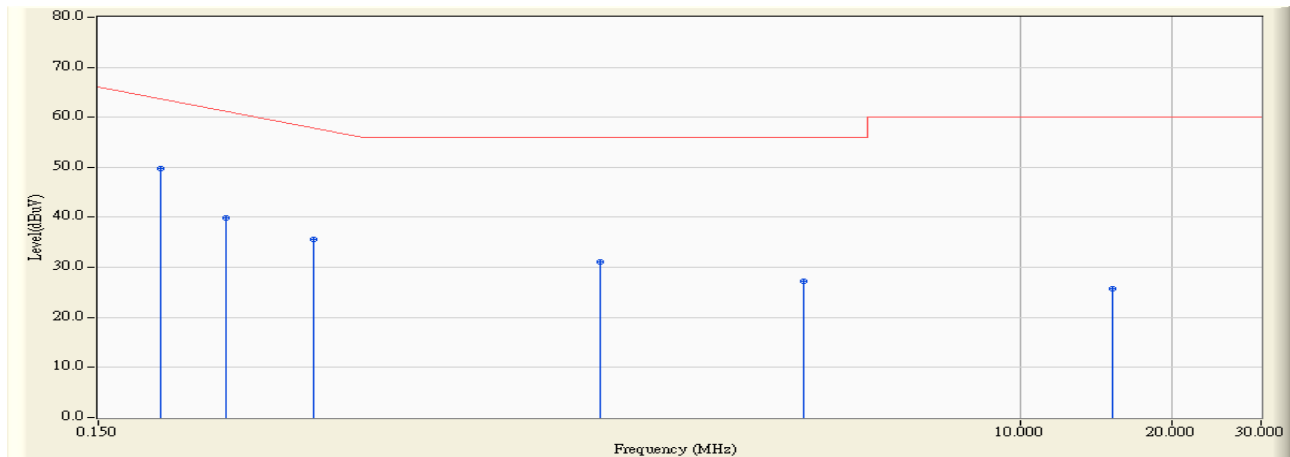


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.209	0.449	32.500	32.948	-21.366	54.314	AVERAGE
2		0.333	0.354	20.300	20.654	-30.117	50.771	AVERAGE
3		0.615	0.310	16.180	16.490	-29.510	46.000	AVERAGE
4		1.689	0.370	20.340	20.710	-25.290	46.000	AVERAGE
5		3.941	0.430	9.980	10.410	-35.590	46.000	AVERAGE
6		15.594	0.580	21.590	22.170	-27.830	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room3	Time : 2007/04/16 - 19:34
Limit : CISPR_B_00M_QP	Margin : 0
EUT : GNT-1250	Probe : SR3_LISN(16A) - Line2
Power : AV 120V / 60Hz	Note : TX

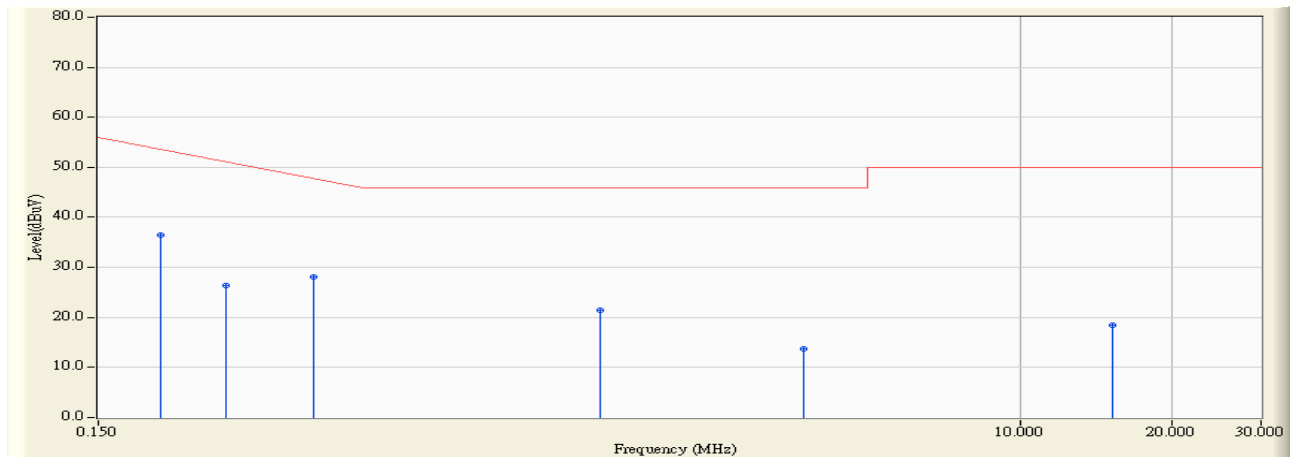


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.199	0.153	49.670	49.823	-14.777	64.600	QUASIPeAK
2		0.269	0.167	39.650	39.817	-22.783	62.600	QUASIPeAK
3		0.400	0.200	35.320	35.520	-23.337	58.857	QUASIPeAK
4		1.476	0.310	30.730	31.040	-24.960	56.000	QUASIPeAK
5		3.723	0.430	26.900	27.330	-28.670	56.000	QUASIPeAK
6		15.216	0.861	24.890	25.751	-34.249	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
- 3.Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room3	Time : 2007/04/16 - 19:34
Limit : CISPR_B_00M_AV	Margin : 0
EUT : GNT-1250	Probe : SR3_LISN(16A) - Line2
Power : AV 120V / 60Hz	Note : TX



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.199	0.153	36.390	36.543	-18.057	54.600	AVERAGE
2		0.269	0.167	26.320	26.487	-26.113	52.600	AVERAGE
3		0.400	0.200	27.910	28.110	-20.747	48.857	AVERAGE
4		1.476	0.310	21.230	21.540	-24.460	46.000	AVERAGE
5		3.723	0.430	13.390	13.820	-32.180	46.000	AVERAGE
6		15.216	0.861	17.620	18.481	-31.519	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
- 3.Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

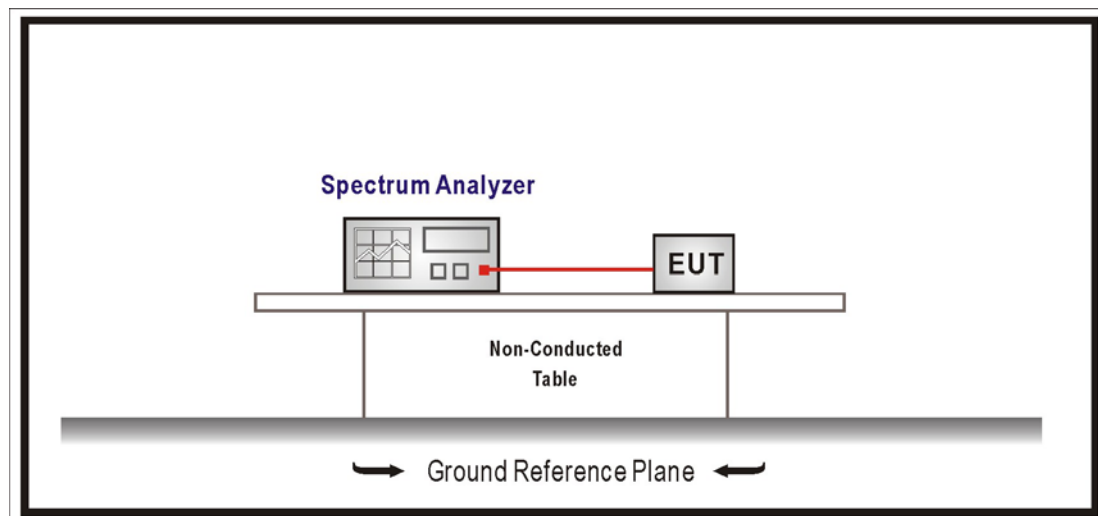
3.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R&S	FSP/ 100005	Oct., 2006
2	No.1 OATS			Sep., 2006

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2. Test Setup



3.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: 1 Watt for systems employing at least 50 hopping channels; and, 0.25 Watts for systems employing less than 50 hopping channels.

For frequency hopping systems in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1Watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 Watt.

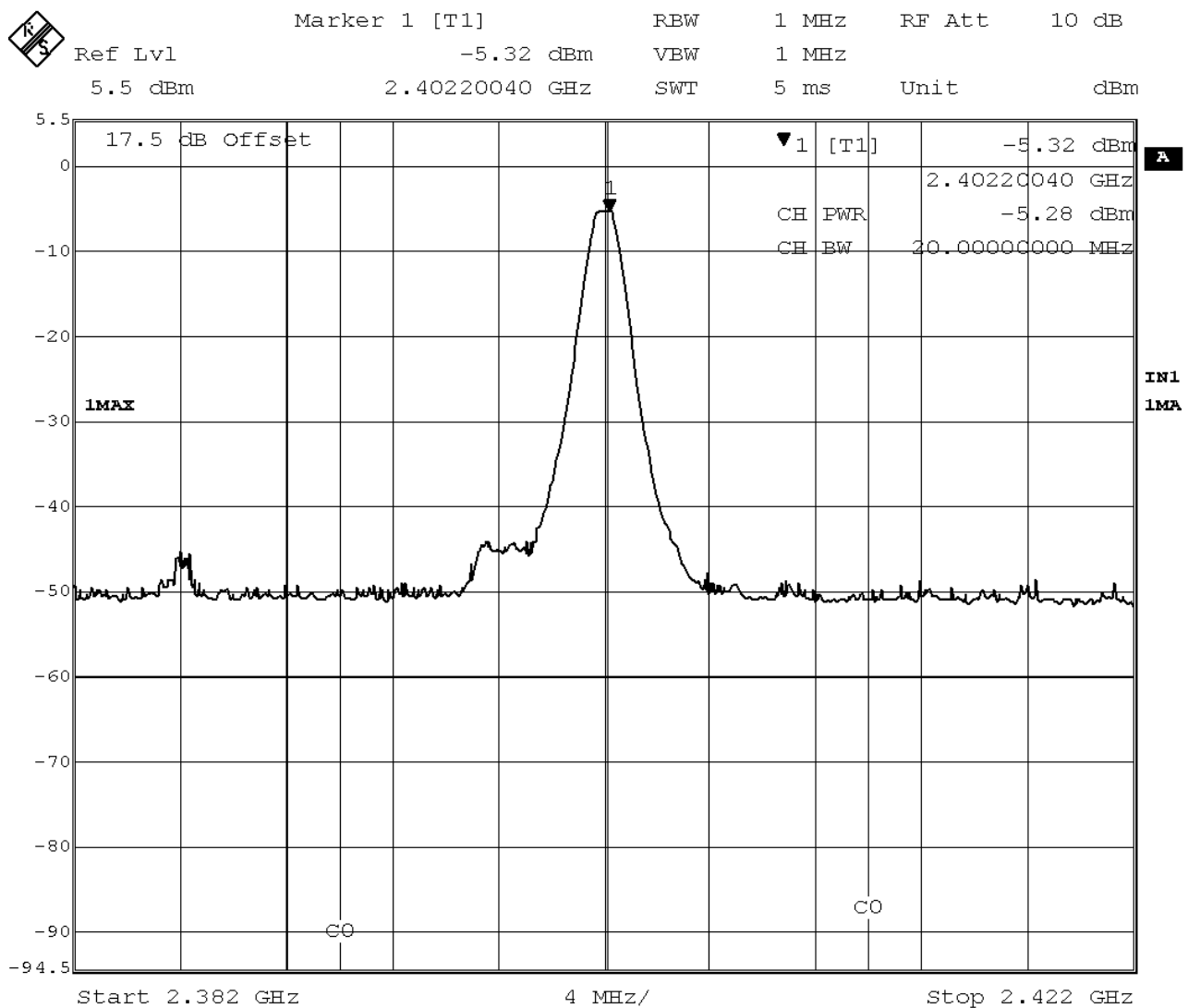
3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

3.5. Test Result

Product	GNT-1250		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2007/04/14	Test Site	No.1 OATS

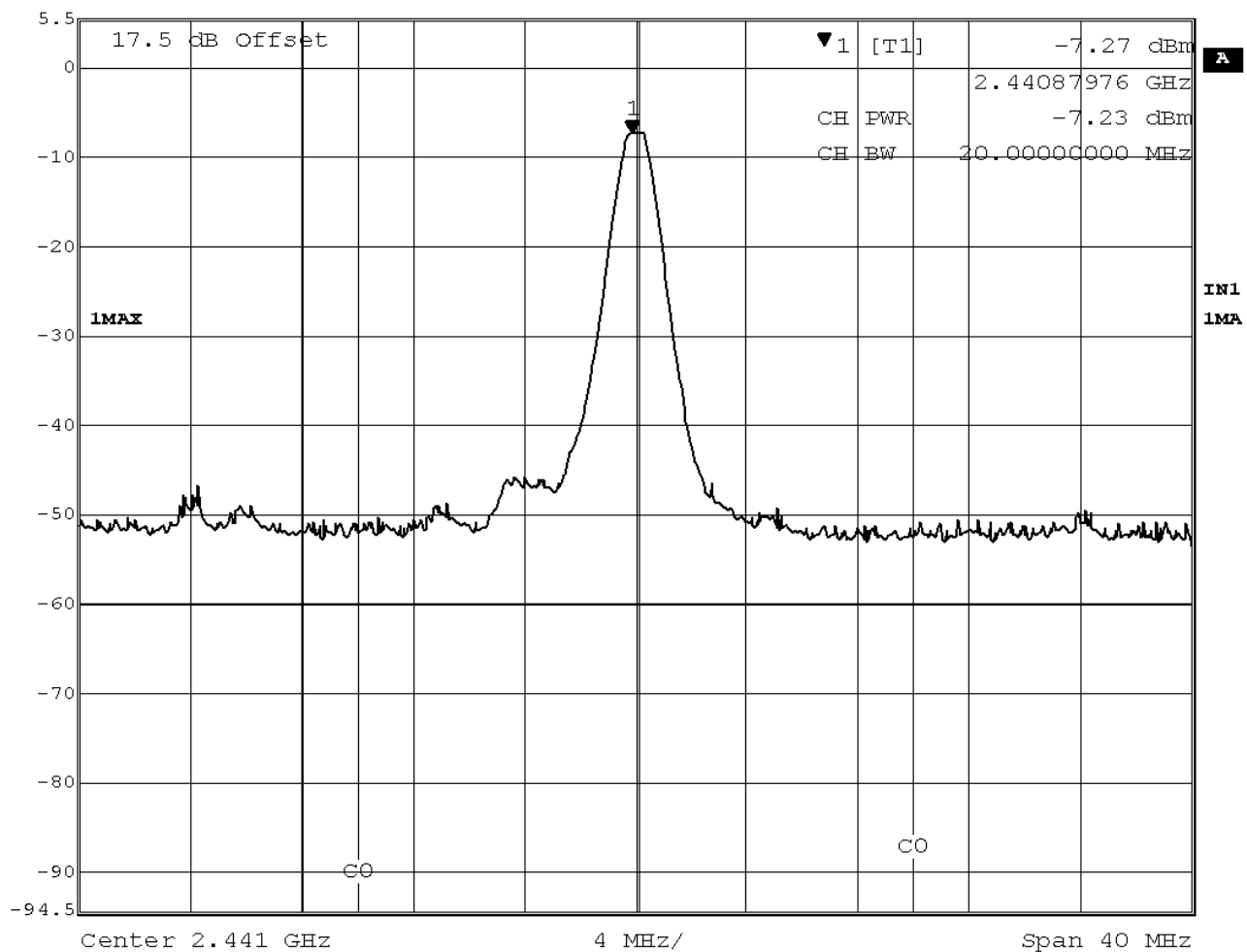
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402.00	-5.28	1Watt= 30 dBm	Pass
39	2441.00	-7.23	1Watt= 30 dBm	Pass
78	2480.00	-6.35	1Watt= 30 dBm	Pass



Date: 14.APR.2007 16:17:13



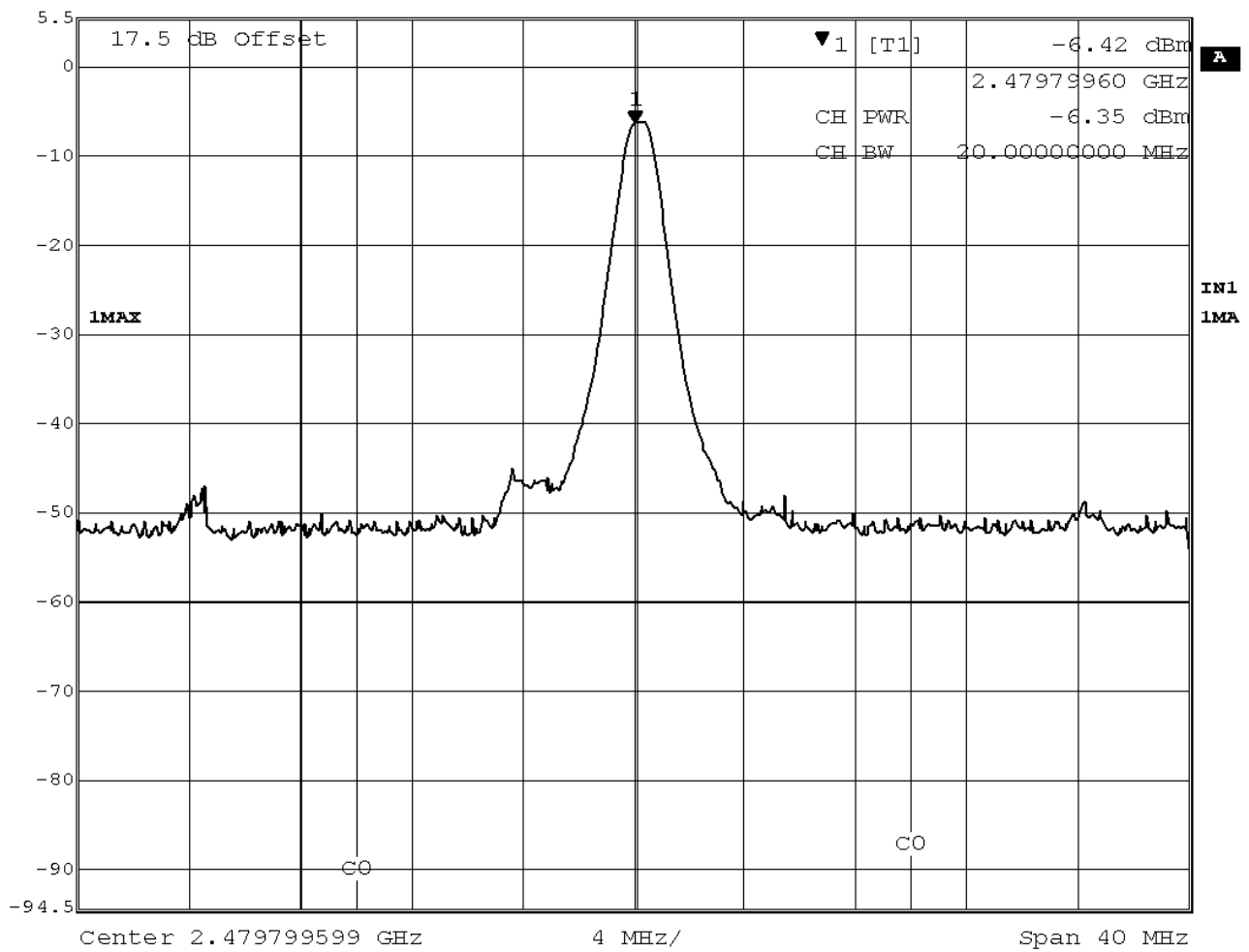
Marker 1 [T1] RBW 1 MHz RF Att 10 dB
 Ref Lvl -7.27 dBm VBW 1 MHz
 5.5 dBm 2.44087976 GHz SWT 5 ms Unit dBm



Date: 14.APR.2007 16:25:06



Marker 1 [T1]	RBW	1 MHz	RF Att	10 dB
Ref Lvl	-6.42 dBm	VBW	1 MHz	
5.5 dBm	2.47979960 GHz	SWT	5 ms	Unit dBm



Date: 14.APR.2007 16:29:01

4. Radiated Emission

4.1. Test Equipment

The following test equipment are used during the test:

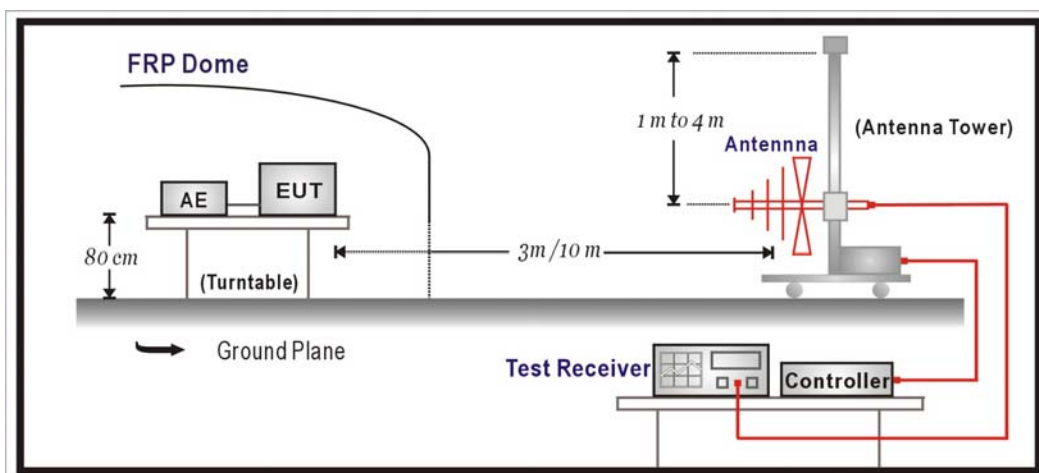
Radiated Emission / Site1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2895	2006/09/03
Horn Antenna	Electro Metrics	EM-6961	103325	2007/03/15
Pre-Amplifier	HP	8449B	3008A01123	2006/11/15
Pre-Amplifier	Quietek	AP-025C	N/A	N/A
Spectrum Analyzer	R & S	FSP40	100005	2006/08/25
Spectrum Analyzer	Advantest	R3162	120300649	2006/11/24
Test Receiver	R & S	ESCS 30	825442/017	2007/02/13

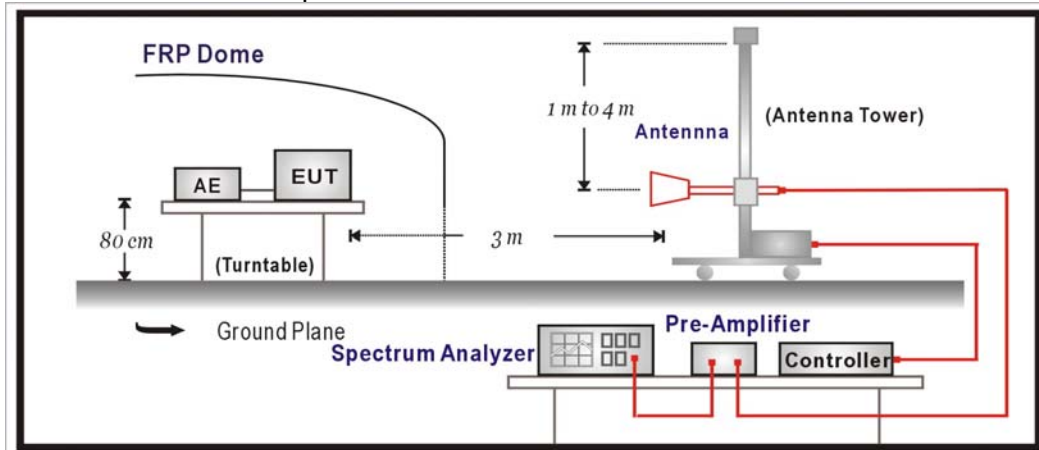
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. 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	dBuV/m
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 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.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

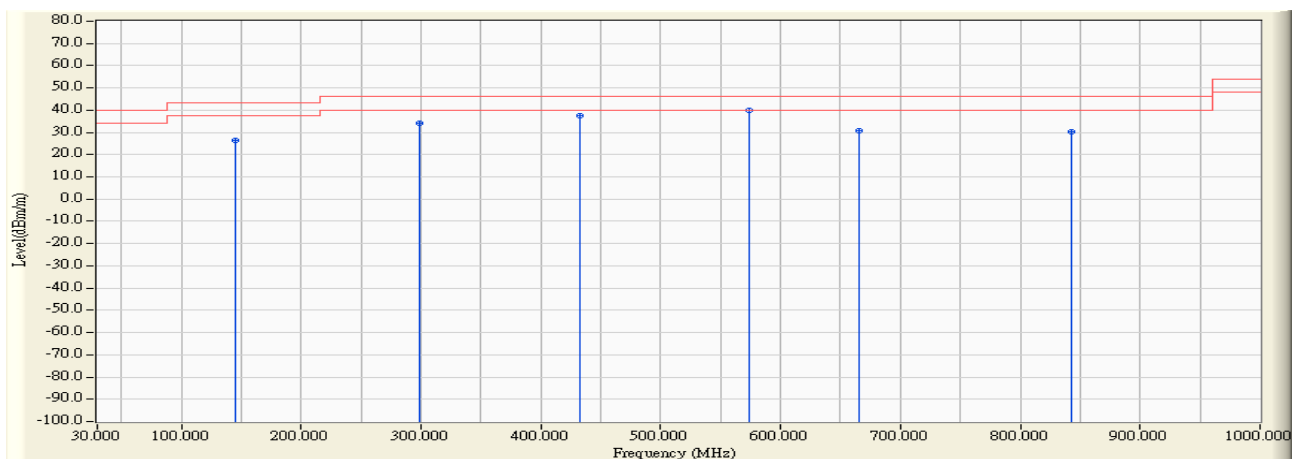
4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

4.6. Test Result

30MHz-1GHz Spurious:

Site : Site 1	Time : 2007/04/23 - 22:40
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_30-1G(200605) - HORIZONTAL
Power : AC 120V /60Hz	Note : TX

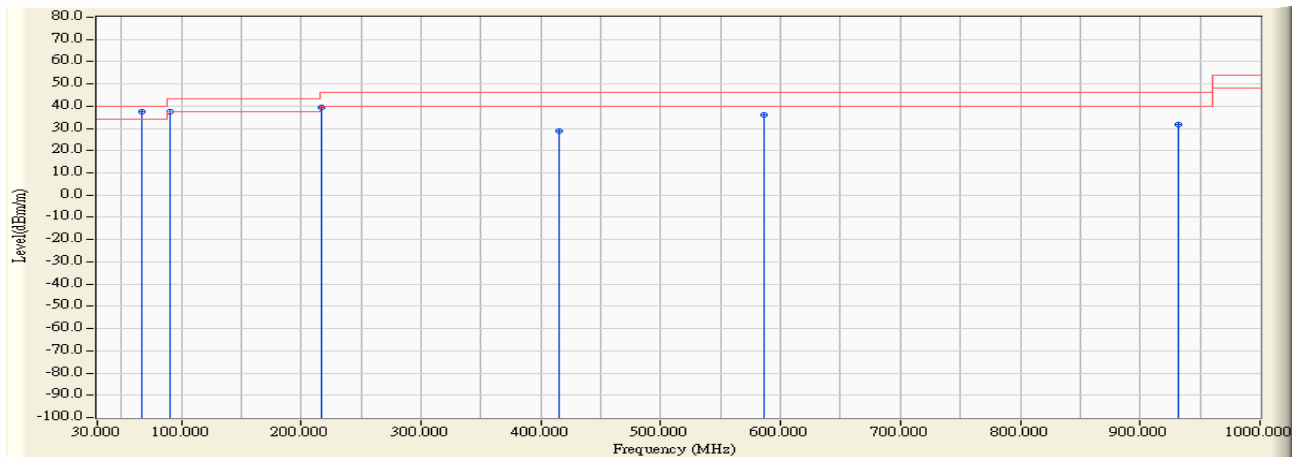


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Detector Type
1		144.689	-12.665	39.272	26.607	-16.893	43.500	Quasi-Peak
2		298.257	-3.801	37.901	34.100	-11.900	46.000	Quasi-Peak
3		432.385	1.904	35.750	37.654	-8.346	46.000	Quasi-Peak
4	*	574.289	4.950	35.017	39.967	-6.033	46.000	Quasi-Peak
5		665.651	1.767	29.159	30.926	-15.074	46.000	Quasi-Peak
6		842.545	3.806	26.411	30.217	-15.783	46.000	Quasi-Peak

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : Site 1	Time : 2007/04/23 - 22:42
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_30-1G(200605) - VERTICAL
Power : AC 120V /60Hz	Note : TX



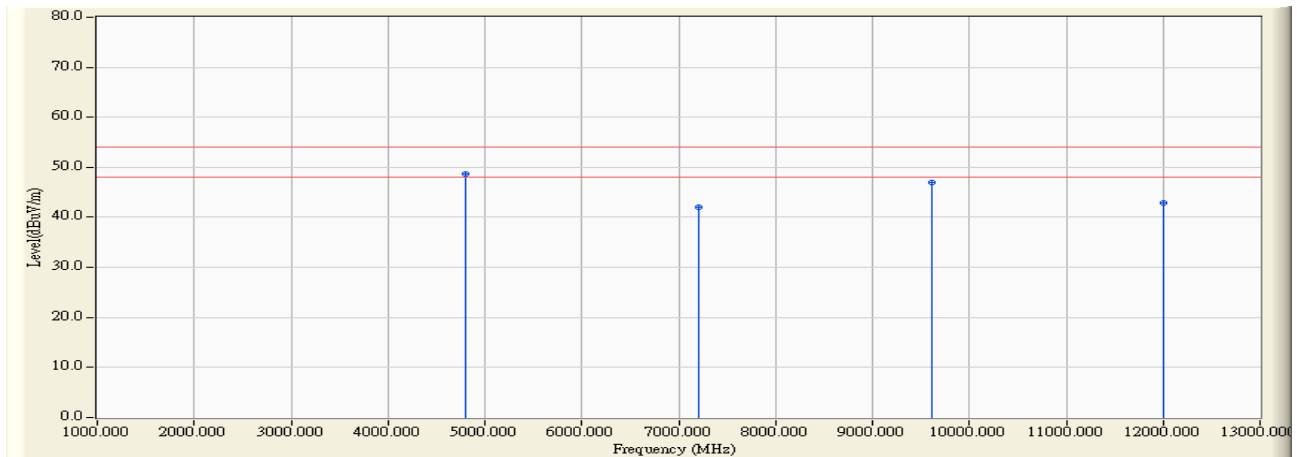
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Detector Type
1	*	66.934	-7.540	45.016	37.476	-2.524	40.000	Quasi-Peak
2		90.261	-2.879	40.402	37.523	-5.977	43.500	Quasi-Peak
3		216.613	-6.152	45.478	39.326	-6.674	46.000	Quasi-Peak
4		414.890	-0.338	29.089	28.751	-17.249	46.000	Quasi-Peak
5		585.952	3.076	32.908	35.985	-10.015	46.000	Quasi-Peak
6		931.964	6.575	25.188	31.763	-14.237	46.000	Quasi-Peak

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Harmonic & Spurious:

Site : Site 1	Time : 2007/04/22 - 20:34
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AV 120V/ 60Hz	Note : CH00-TX

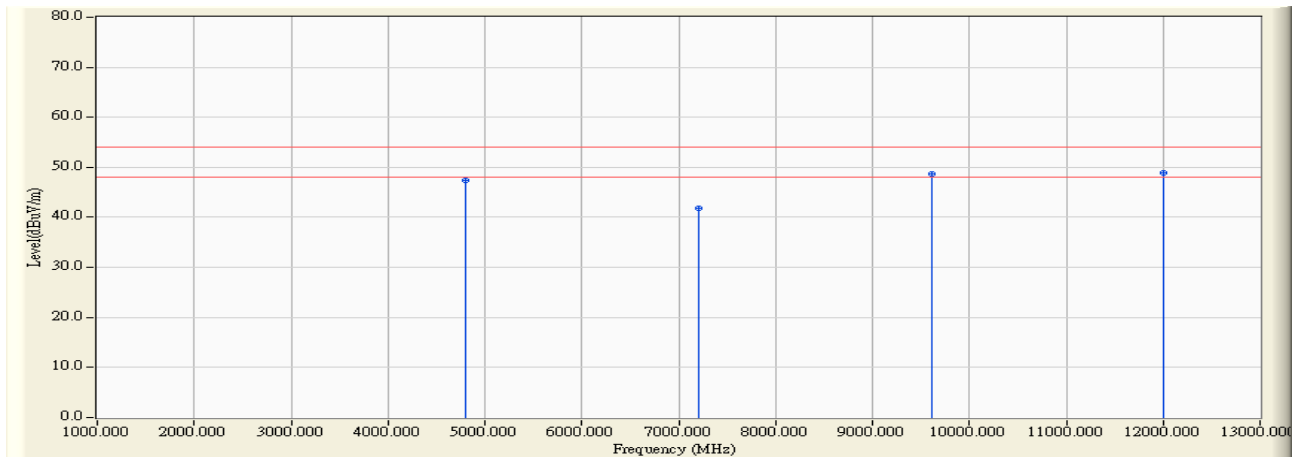


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4804.480	3.598	45.060	48.657	-5.343	74.000	54.000	PEAK
2		7206.020	8.691	33.300	41.991	-12.009	74.000	54.000	PEAK
3		9608.010	12.690	34.220	46.910	-7.090	74.000	54.000	PEAK
4		12010.040	11.028	31.830	42.858	-11.142	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

Site : Site 1	Time : 2007/04/22 - 20:42
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AV 120V/ 60Hz	Note : CH00-TX

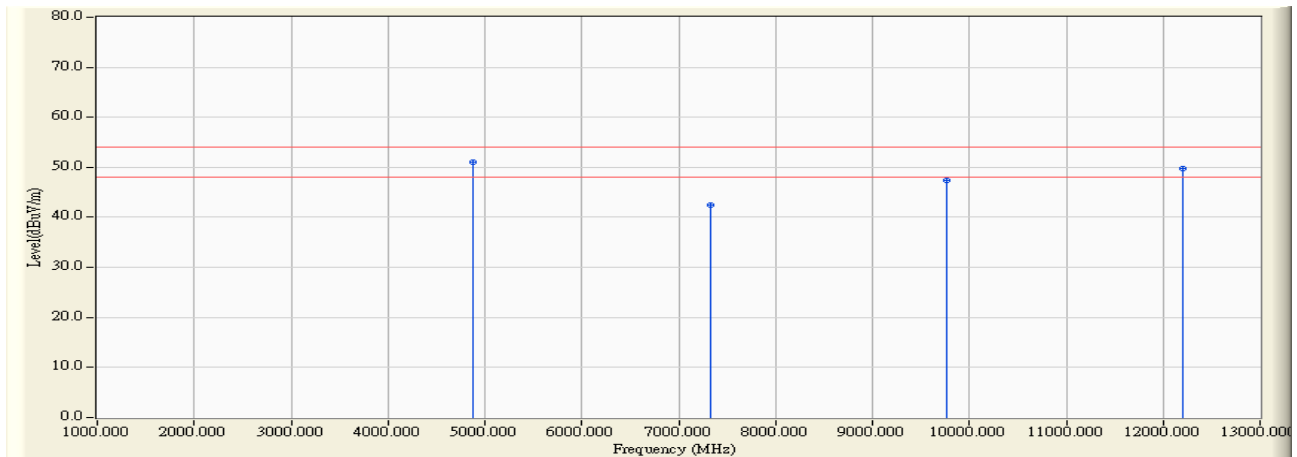


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4804.020	1.812	45.640	47.452	-6.548	74.000	54.000	PEAK
2		7206.010	8.634	33.160	41.795	-12.205	74.000	54.000	PEAK
3		9608.010	14.677	33.990	48.667	-5.333	74.000	54.000	PEAK
4	*	12010.020	16.608	32.300	48.908	-5.092	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

Site : Site 1	Time : 2007/04/22 - 20:59
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AV 120V/ 60Hz	Note : CH39-TX

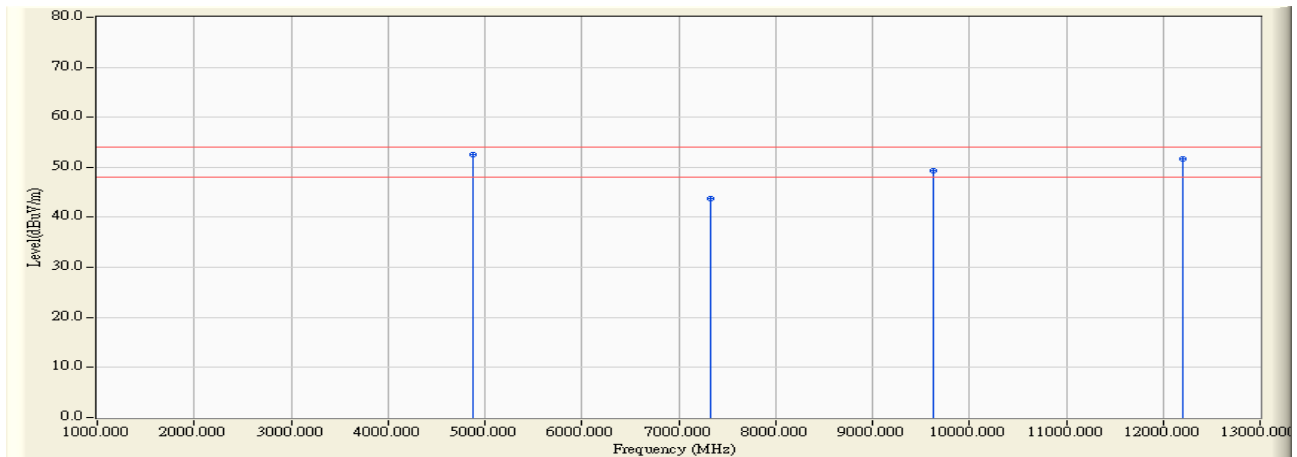


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4885.010	4.164	46.960	51.124	-2.876	74.000	54.000	PEAK
2		7323.020	8.859	33.660	42.519	-11.481	74.000	54.000	PEAK
3		9764.010	13.218	34.260	47.478	-6.522	74.000	54.000	PEAK
4		12205.020	18.108	31.630	49.738	-4.262	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

Site : Site 1	Time : 2007/04/22 - 21:07
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AV 120V/ 60Hz	Note : CH39-TX

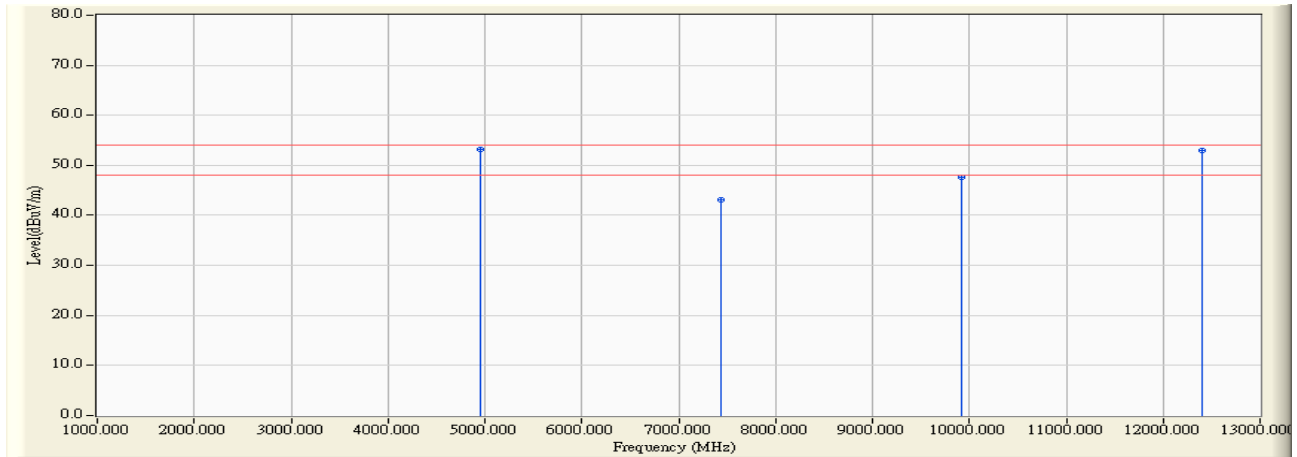


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4882.020	2.503	50.050	52.553	-1.447	74.000	54.000	PEAK
2		7323.030	8.859	34.840	43.699	-10.301	74.000	54.000	PEAK
3		9624.020	14.693	34.620	49.313	-4.687	74.000	54.000	PEAK
4		12205.010	19.567	32.030	51.598	-2.402	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

Site : Site 1	Time : 2007/04/22 - 22:02
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AV 120V/ 60Hz	Note : CH78-TX

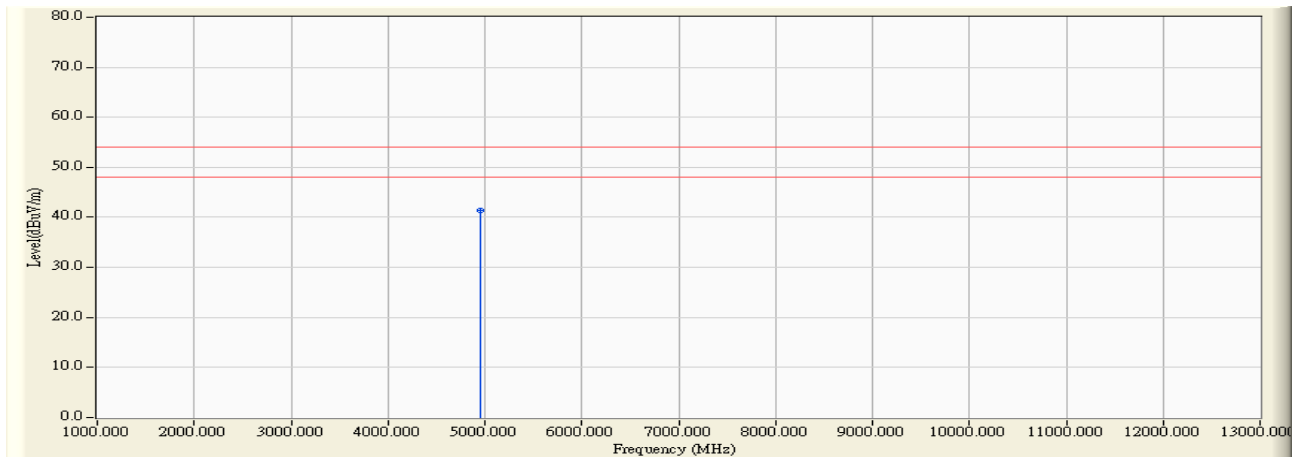


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4960.010	4.399	48.740	53.140	-0.860	74.000	54.000	PEAK
2		7440.010	9.016	34.050	43.066	-10.934	74.000	54.000	PEAK
3		9920.020	14.540	33.110	47.650	-6.350	74.000	54.000	PEAK
4		12400.010	20.663	32.220	52.883	-1.117	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

Site : Site 1	Time : 2007/04/22 - 21:58
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AV 120V/ 60Hz	Note : CH78-TX

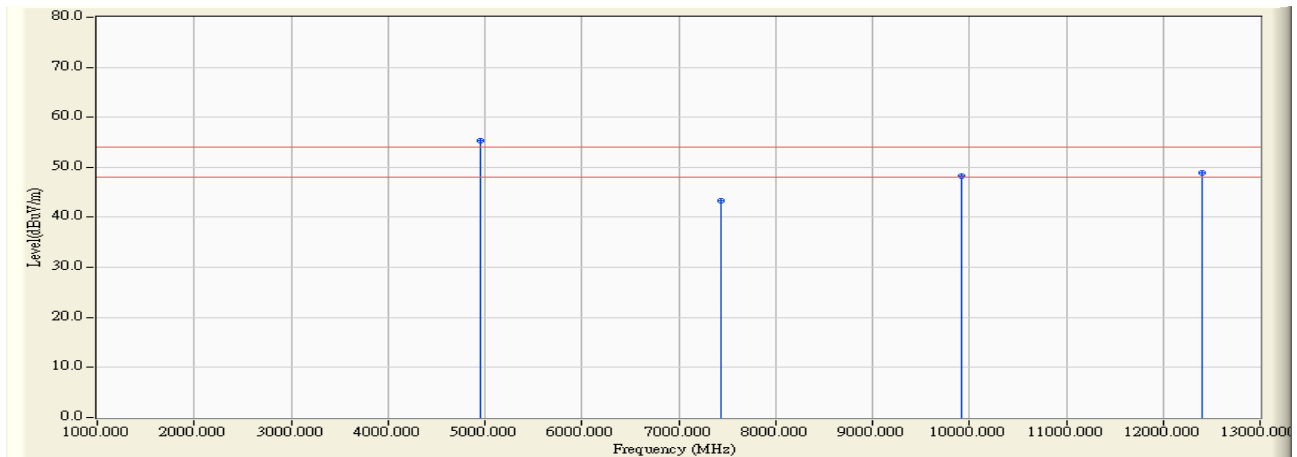


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4960.010	4.399	37.000	41.400	-12.600	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

Site : Site 1	Time : 2007/04/22 - 21:20
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AV 120V/ 60Hz	Note : CH78-TX

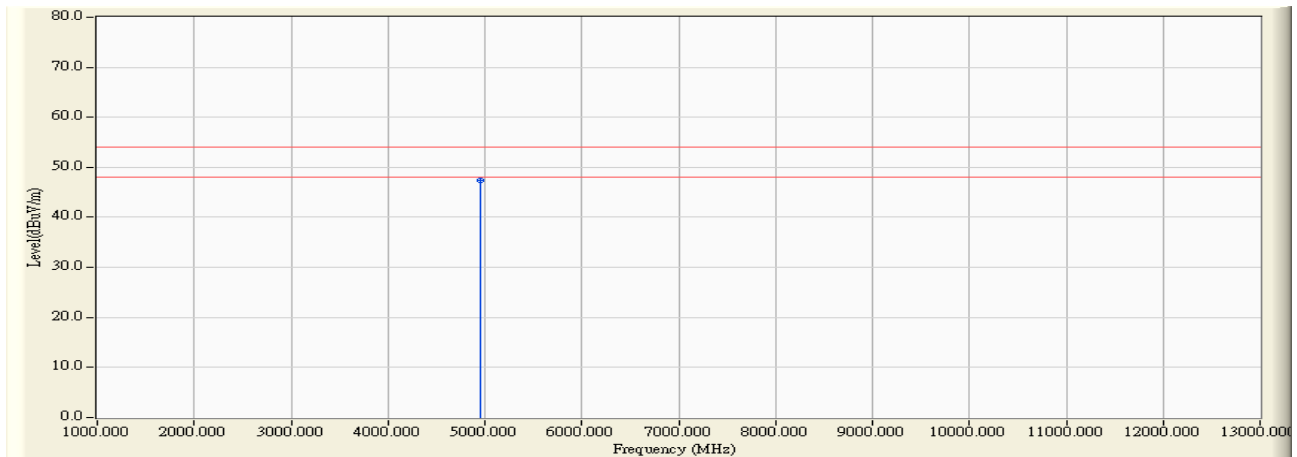


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4960.010	2.917	52.440	55.358	1.358	74.000	54.000	PEAK
2		7440.020	9.016	34.240	43.256	-10.744	74.000	54.000	PEAK
3		9920.030	15.340	32.870	48.210	-5.790	74.000	54.000	PEAK
4		12400.010	16.166	32.740	48.906	-5.094	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

Site : Site 1	Time : 2007/04/22 - 21:47
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AV 120V/ 60Hz	Note : CH78-TX



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4960.010	2.917	44.550	47.468	-6.532	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

5. Band Edge

5.1. Test Equipment

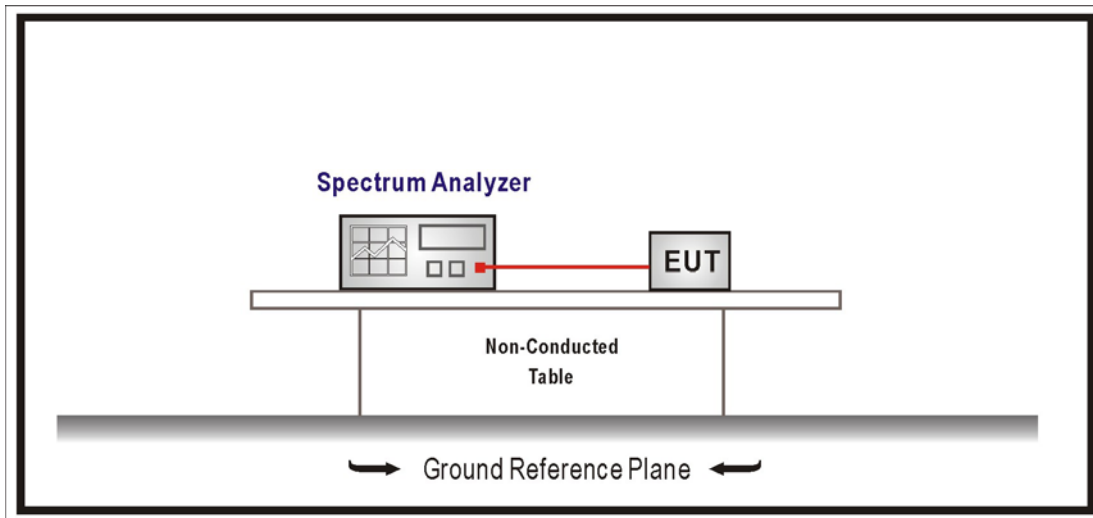
The following test equipment are used during the test:

RF Conducted Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer		R & S	FSP / 100561	Mar., 2007
2	No.1 OATS				Sep., 2006
RF Radiated Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2006
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2007
3		Loop Antenna	R & S	HFH2-Z2 / 833799/004	Sep., 2006
4		BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	Sep., 2006
5		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2006
6	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Sep., 2006
7	No.1 OATS				Sep., 2006

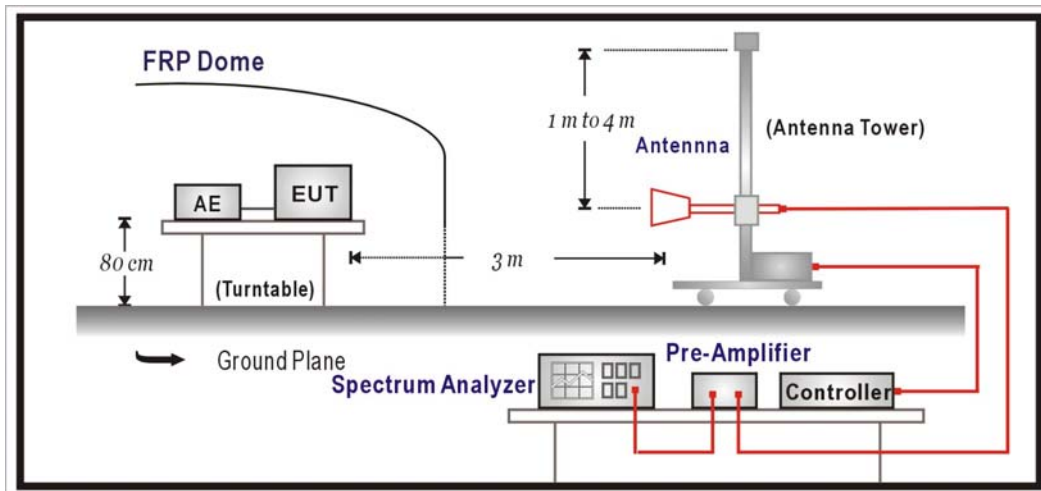
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

5.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



5.3. Limits

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)).

5.4. 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.

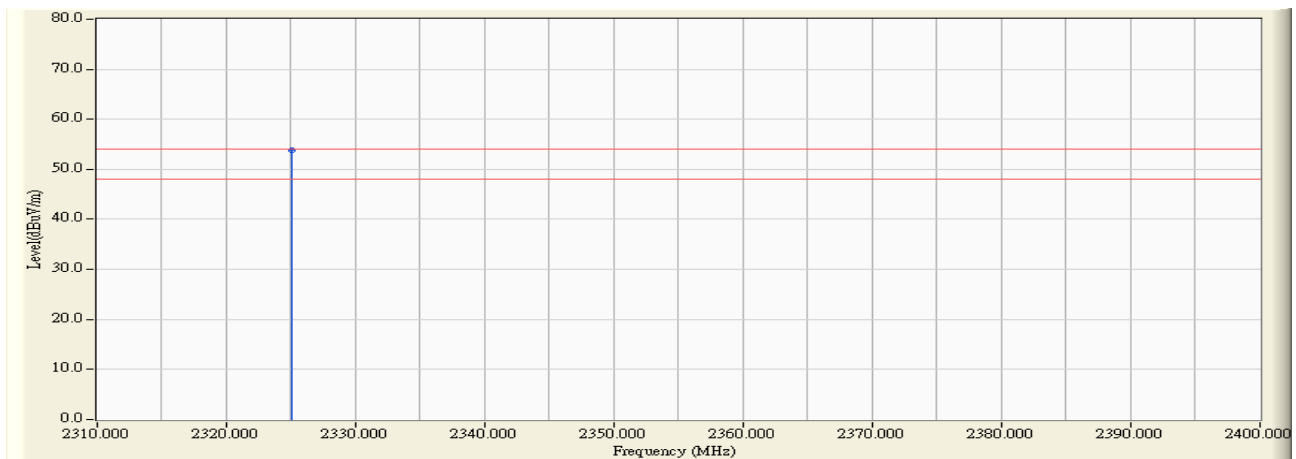
The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

5.6. Test Result

Site : Site 1	Time : 2007/04/23 - 16:43
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AV 120V/ 60Hz	Note : CH00

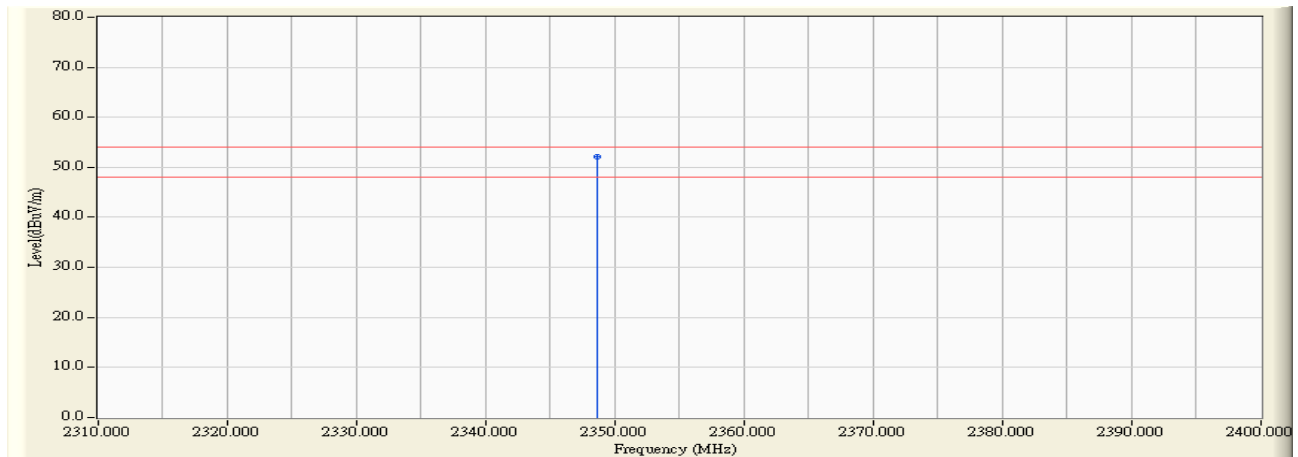


		Frequency (MHz)	Probe Factor (dB/m)	Cable Loss (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2325.080	24.267	4.459	25.050	53.777	-0.193	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

Site : Site 1	Time : 2007/04/23 - 17:44
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AV 120V/ 60Hz	Note : CH00

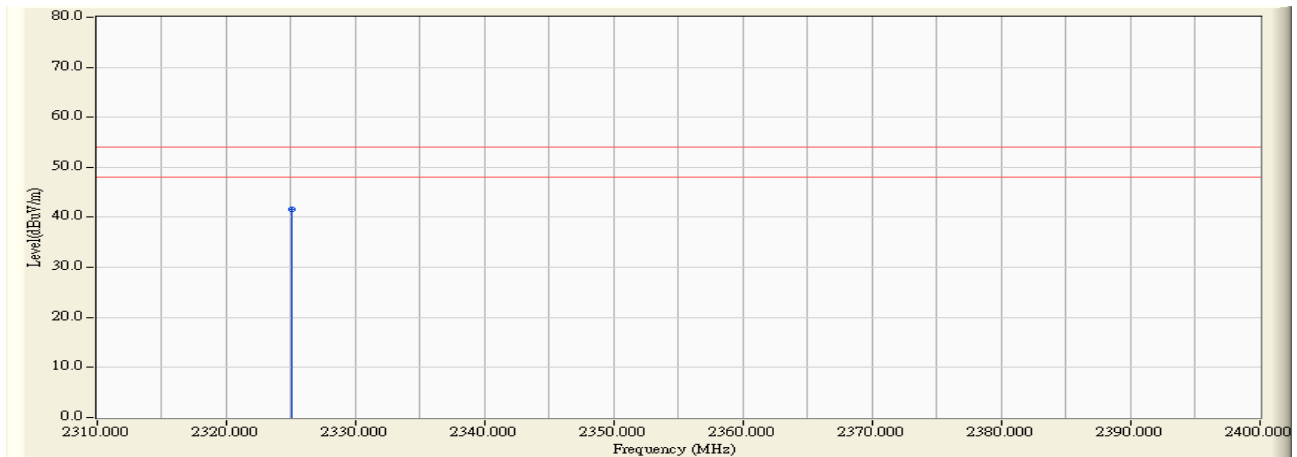


		Frequency (MHz)	Probe Factor (dB/m)	Cable Loss (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2348.640	22.747	4.477	24.860	52.083	-1.887	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

Site : Site 1	Time : 2007/04/23 - 16:46
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AV 120V/ 60Hz	Note : CH00-AV

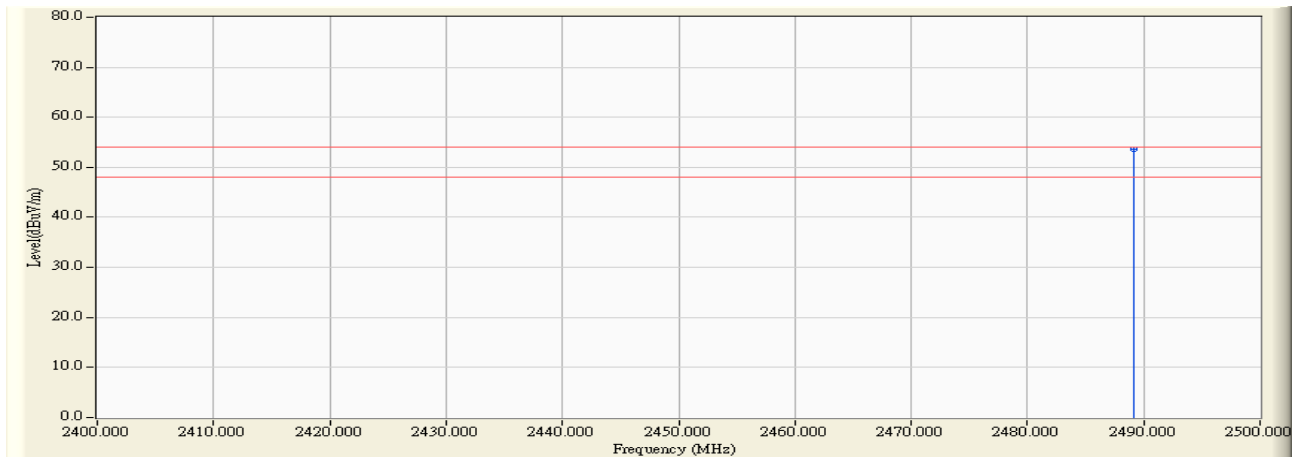


		Frequency (MHz)	Probe Factor (dB/m)	Cable Loss (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2325.080	24.267	4.459	12.840	41.567	-12.403	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

Site : Site 1	Time : 2007/07/23 - 20:09
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AV 120V/ 60Hz	Note : CH78

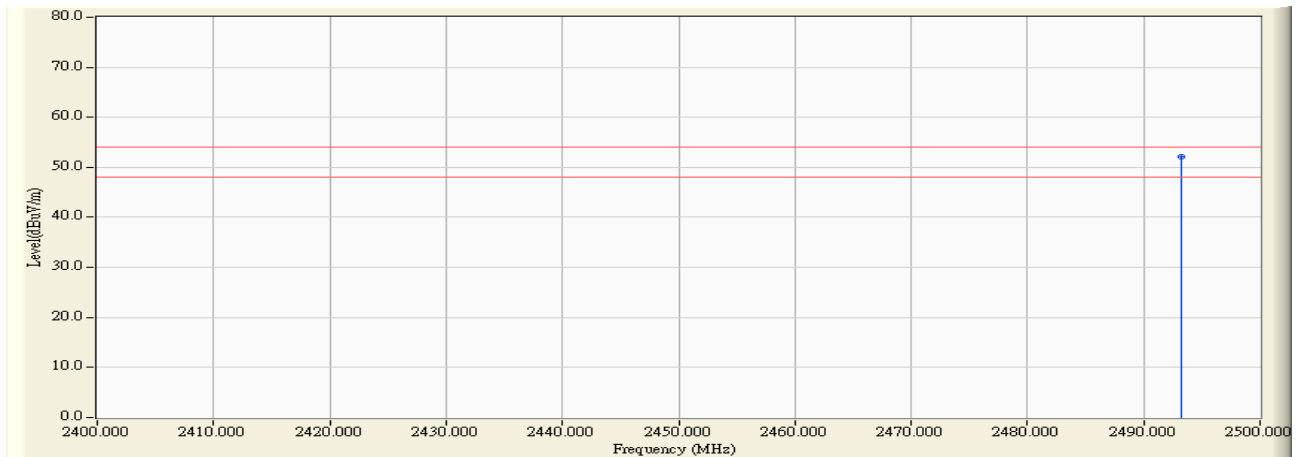


		Frequency (MHz)	Probe Factor (dB/m)	Cable Loss (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2489.140	24.734	4.576	24.350	53.660	-0.310	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

Site : Site 1	Time : 2007/07/23 - 20:35
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
EUT : GPS-1250	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AV 120V/ 60Hz	Note : CH78

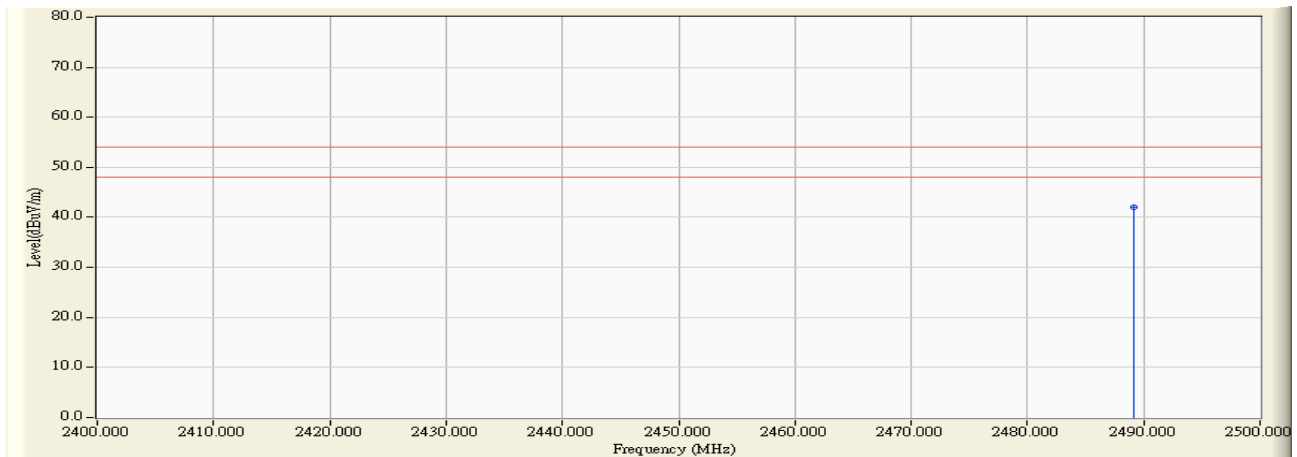


		Frequency (MHz)	Probe Factor (dB/m)	Cable Loss (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2493.220	23.143	4.578	24.340	52.062	-1.908	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

Site : Site 1	Time : 2007/07/23 - 20:12
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
EUT : GNT-1250	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AV 120V/ 60Hz	Note : CH78



		Frequency (MHz)	Probe Factor (dB/m)	Cable Loss (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2489.140	24.734	4.576	12.750	42.060	-11.910	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 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.

6. Channel of Number

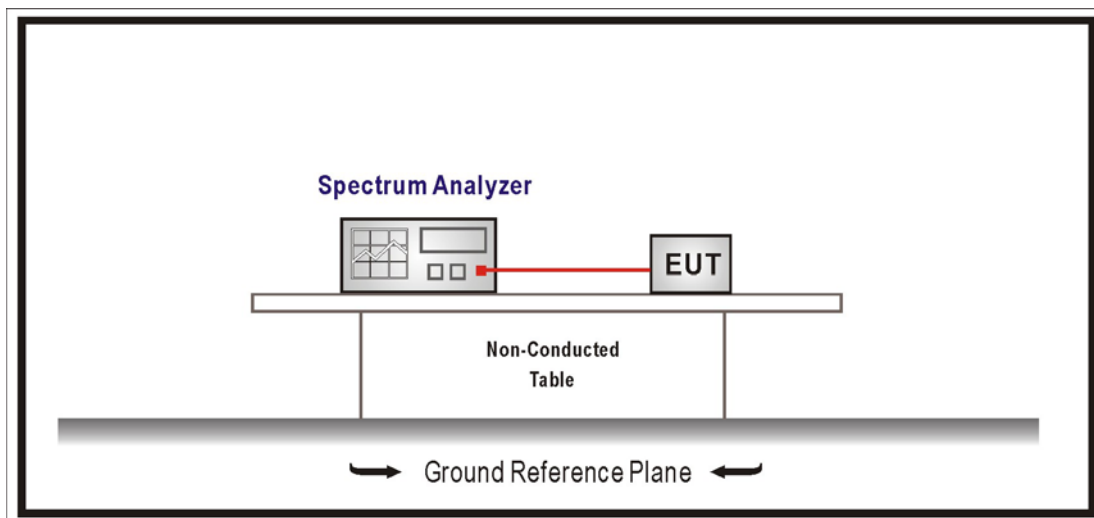
6.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

For frequency hopping systems operating in the 2400-2483.5 MHz bands, which use fewer than 75 hopping frequencies, may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels are used.

For frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies.

6.4. Test Specification

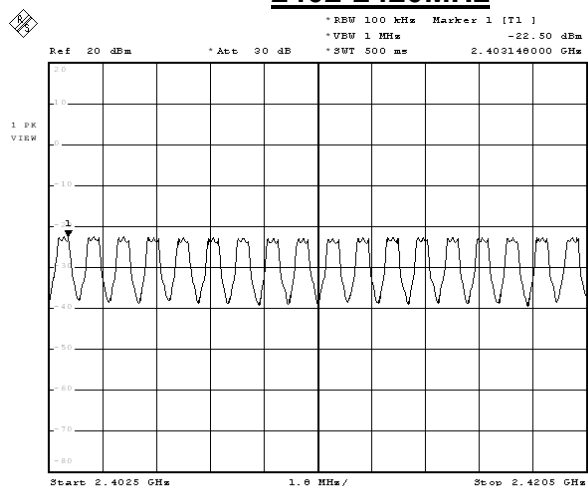
According to FCC Part 15 Subpart C Paragraph 15.247: 2006

6.5. Test Result

Product	GNT-1250		
Test Item	Channel of Number		
Test Mode	Mode 1: Transmit		
Date of Test	2007/04/13	Test Site	No.1 OATS

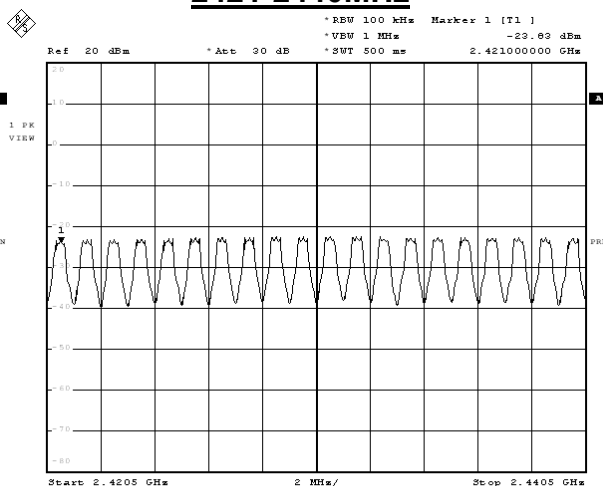
Frequency Range (MHz)	Measure Level (Hopping Channel)	Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

2402-2420MHz



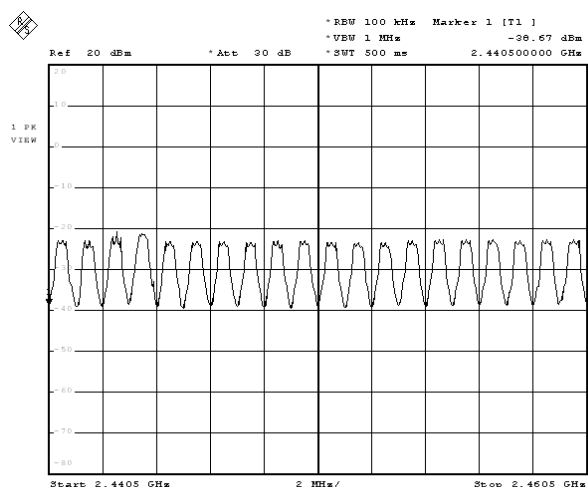
Date: 13.APR.2007 11:42:36

2421-2440MHz



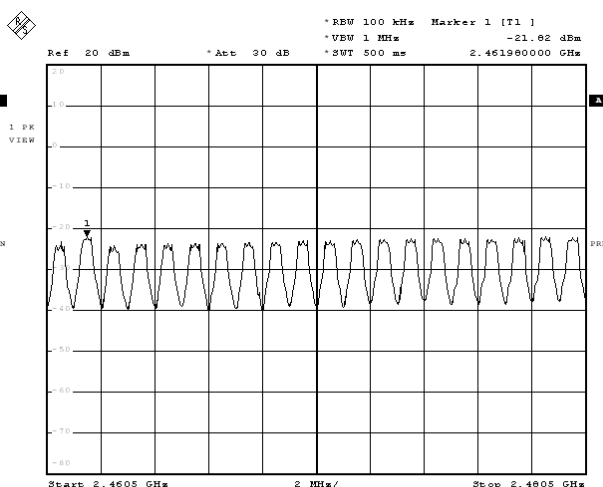
Date: 13.APR.2007 11:52:19

2441-2460MHz



Date: 13.APR.2007 12:09:16

2461-2480MHz



Date: 13.APR.2007 12:15:55

7. Channel Separation

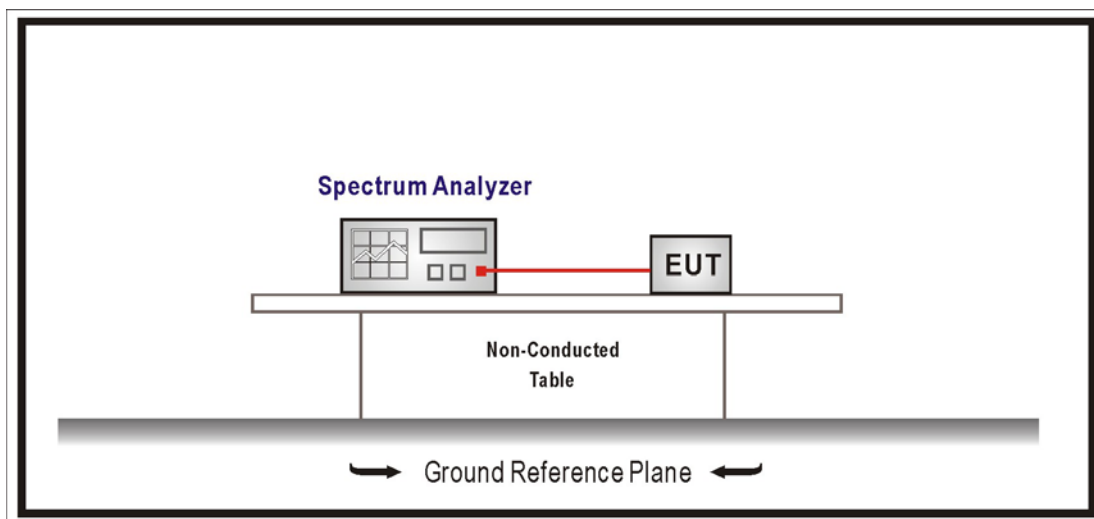
7.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Limits

For 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.

7.4. Test Specification

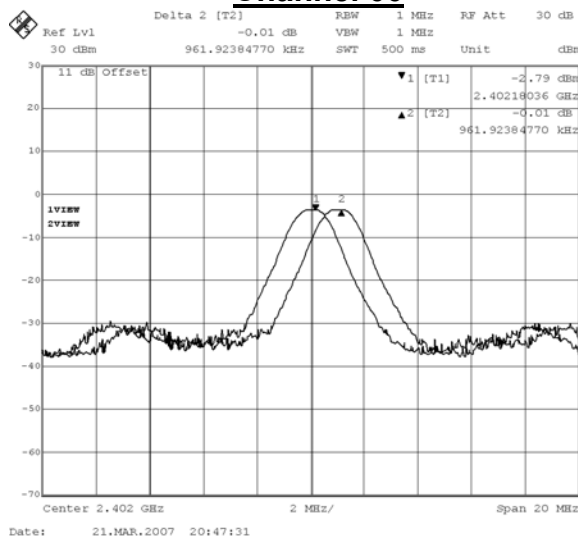
According to FCC Part 15 Subpart C Paragraph 15.247: 2006

7.5. Test Result

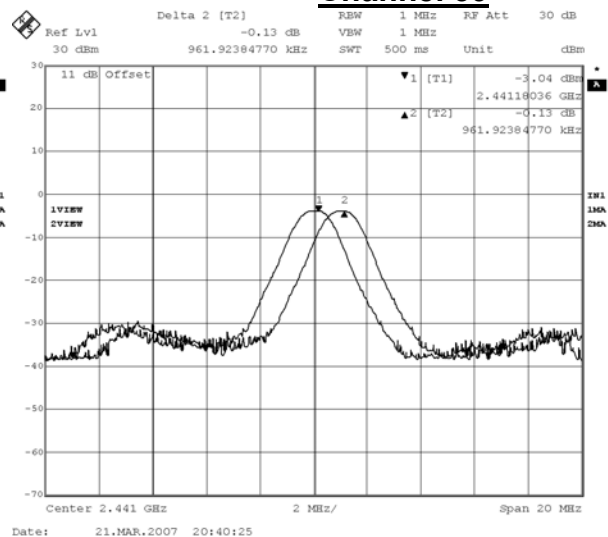
Product	GNT-1250			
Test Item	Channel Separation			
Test Mode	Mode 1: Transmit			
Date of Test	2007/03/21	Test Site	No.1 OATS	

Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)	Result
00	2402.00	961	864	Pass
39	2441.00	961	820	Pass
78	2480.00	961	820	Pass

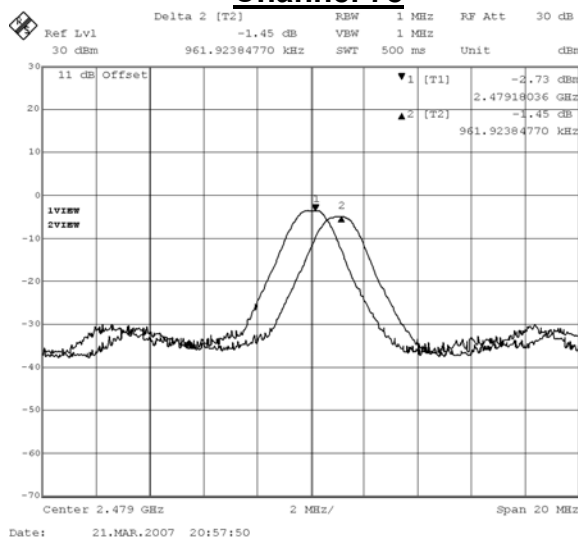
Channel 00



Channel 39



Channel 78



8. Occupied Bandwidth

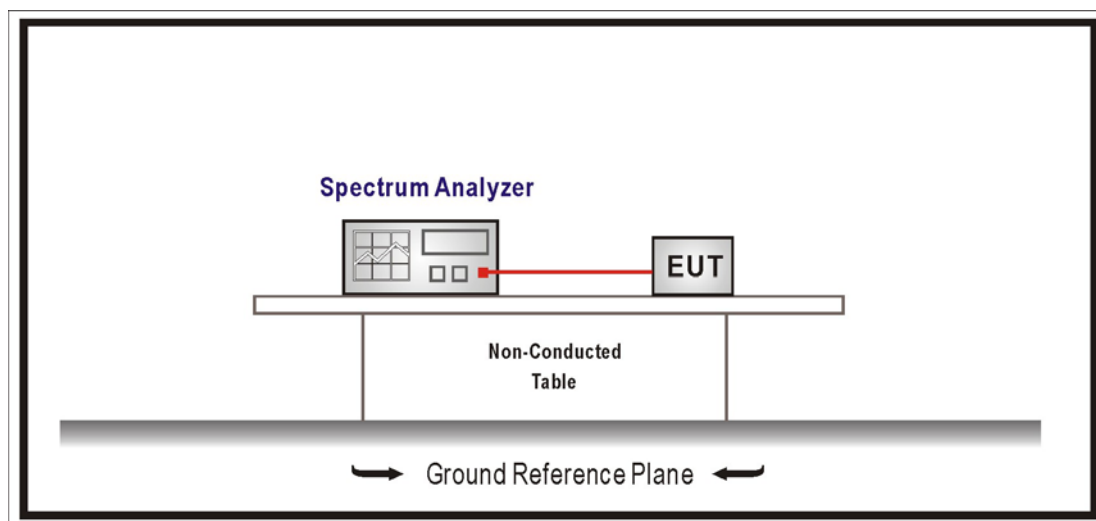
8.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup



8.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

For frequency hopping systems operating in the 5725-5850 MHz bands. The maximum 20 dB bandwidth of the hopping channel is 1 MHz.

For 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 Specification

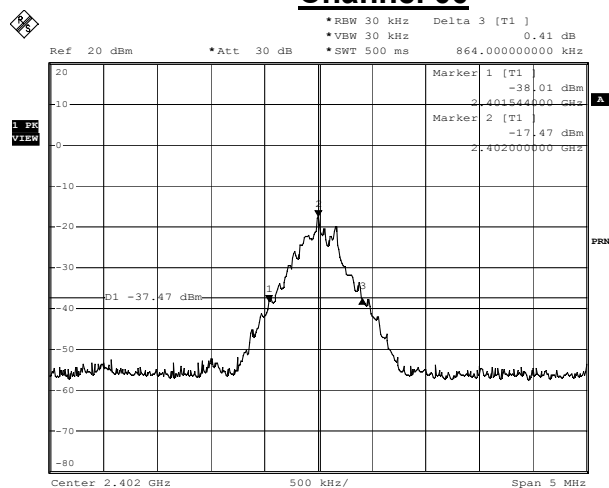
According to FCC Part 15 Subpart C Paragraph 15.247: 2006

8.5. Test Result

Product	GNT-1250		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2007/06/19	Test Site	No.1 OATS

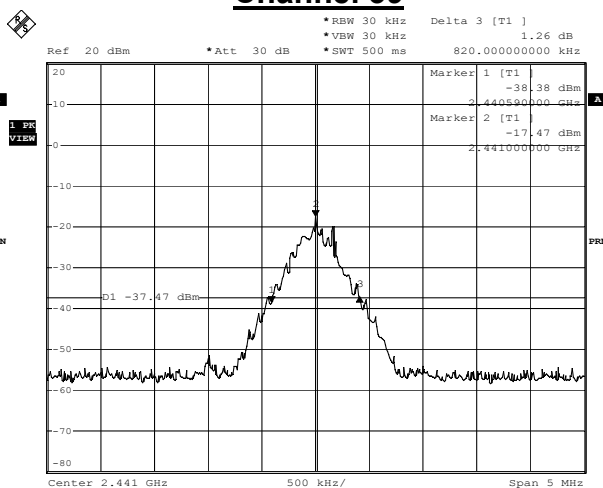
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
00	2402.00	0.864	1	Pass
39	2441.00	0.820	1	Pass
78	2480.00	0.820	1	Pass

Channel 00



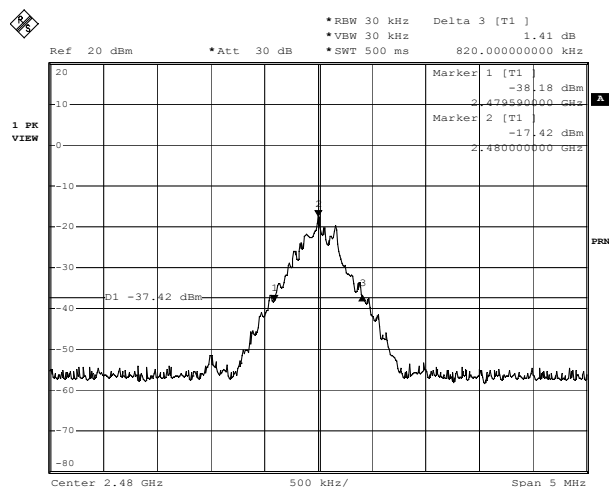
Date: 19.JUN.2007 20:41:15

Channel 39



Date: 19.JUN.2007 20:44:04

Channel 78



Date: 19.JUN.2007 20:45:50

9. Dwell Time

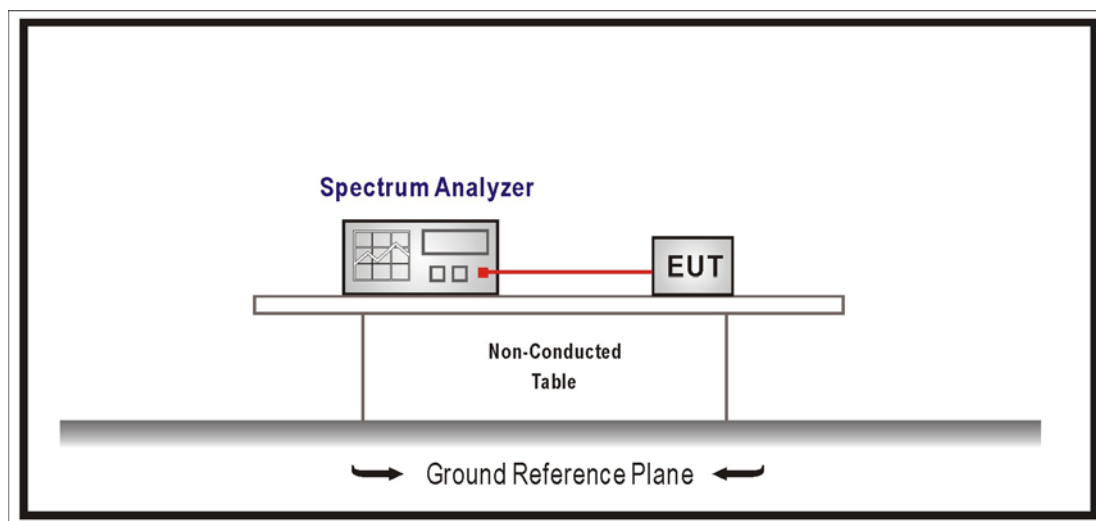
9.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

9.2. Test Setup



9.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. For frequency hopping systems operating in the 2400-2483.5 MHz bands. 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.

For frequency hopping systems operating in the 5725-5850 MHz bands. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

9.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

9.5. Test Result

Product	Bluetooth		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit		
Date of Test	2007/04/14	Test Site	No.1 OATS

Occupancy Time of Frequency Hopping System-DH 1

A) 2402MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $16/20\text{msec} = 800 / \text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.00044 \times (800/79) \times 31.6 = 0.1408\text{sec}$.

B) 2441MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $16/20\text{msec} = 800 / \text{sec}$

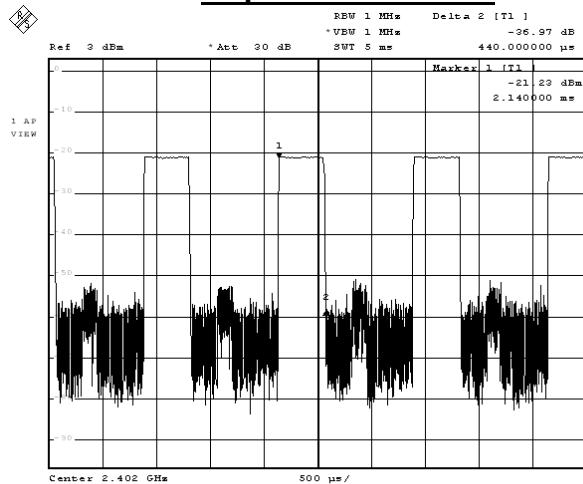
The Maximum Occupancy Time Within 31.6sec: $0.00044 \times (800/79) \times 31.6 = 0.1408\text{sec}$.

C) 2480MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $16/20\text{msec} = 800 / \text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.00045 \times (800/79) \times 31.6 = 0.144\text{sec}$.

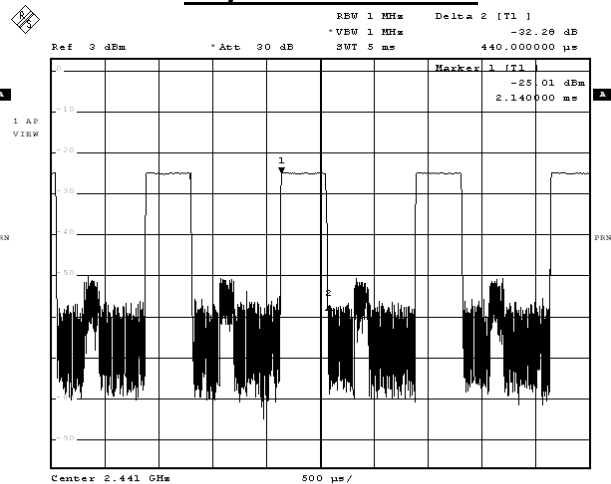
Test Result: The Average Occupancy Time of Each Highest , Middle and Lowest Channel Is Less Than 0.4sec , And Corresponds to The Standard .

Hop rate-2402MHz



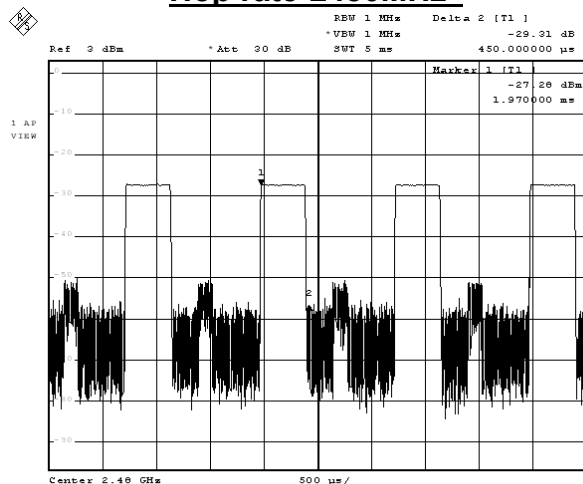
Date: 13.APR.2007 12:04:15

Hop rate-2441MHz



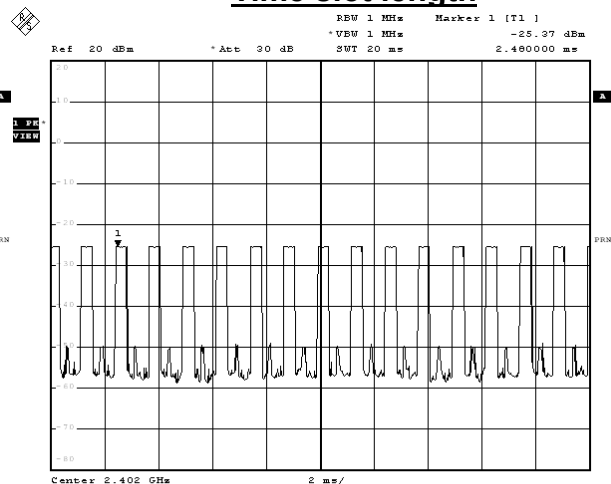
Date: 13.APR.2007 12:06:47

Hop rate-2480MHz



Date: 13.APR.2007 12:02:36

Time slot length



Date: 13.APR.2007 13:02:32

Note: Dwell time = time slot length * hop rate / number of hopping channels * period

Product	GNT-1250		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit		
Date of Test	2007/04/14	Test Site	No.1 OATS

Occupancy Time of Frequency Hopping System-DH 3

A) 2402MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $8/20\text{msec} = 400/\text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.00169 \times (400/79) \times 31.6 = 0.2704\text{sec}$.

B) 2441MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $8/20\text{msec} = 400/\text{sec}$

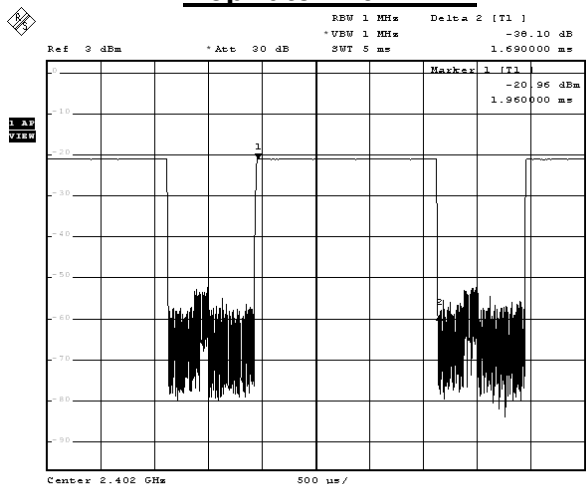
The Maximum Occupancy Time Within 31.6sec: $0.0017 \times (400/79) \times 31.6 = 0.272\text{sec}$.

C) 2480MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $8/20\text{msec} = 400/\text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.0017 \times (400/79) \times 31.6 = 0.272\text{sec}$.

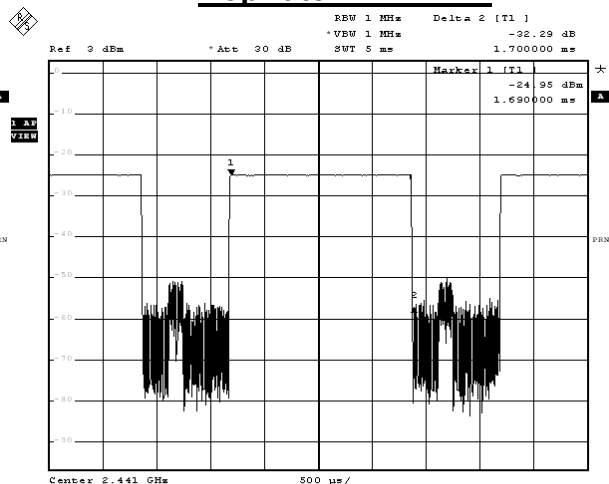
Test Result: The Average Occupancy Time of Each Highest , Middle and Lowest Channel Is Less Than 0.4sec , And Corresponds to The Standard .

Hop rate-2402MHz



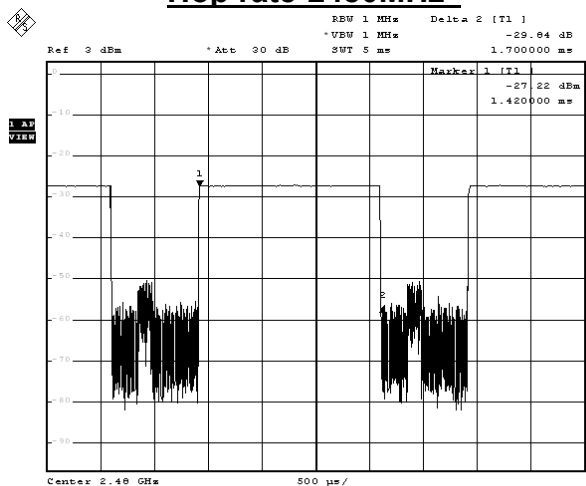
Date: 13.APR.2007 12:09:30

Hop rate-2441MHz



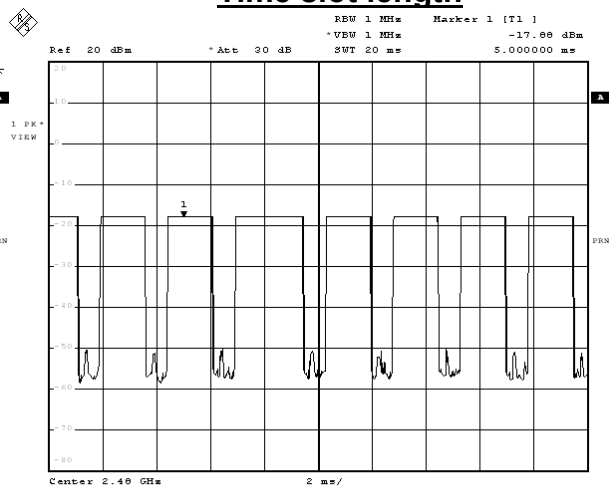
Date: 13.APR.2007 12:10:40

Hop rate-2480MHz



Date: 13.APR.2007 12:11:40

Time slot length



Date: 13.APR.2007 12:26:19

Note: Dwell time = time slot length * hop rate / number of hopping channels * period

Product	GNT-1250		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit		
Date of Test	2007/04/14	Test Site	No.1 OATS

Occupancy Time of Frequency Hopping System-DH 5

A) 2402MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $5/20\text{msec} = 250 / \text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.00294 \times (250/79) \times 31.6 = 0.294\text{sec}$.

B) 2441MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $5/20\text{msec} = 250 / \text{sec}$

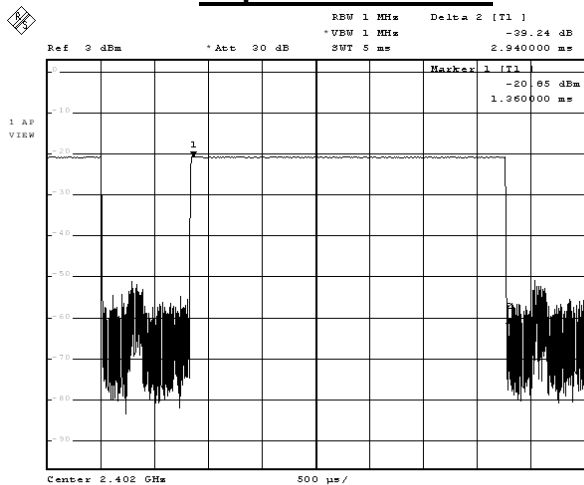
The Maximum Occupancy Time Within 31.6sec: $0.00296 \times (250/79) \times 31.6 = 0.296\text{sec}$.

C) 2480MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $5/20\text{msec} = 250 / \text{sec}$

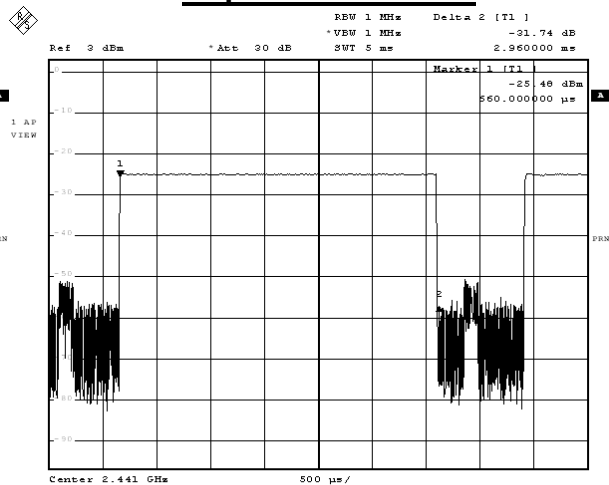
The Maximum Occupancy Time Within 31.6sec: $0.00295 \times (250/79) \times 31.6 = 0.295\text{sec}$.

Test Result: The Average Occupancy Time of Each Highest , Middle and Lowest Channel Is Less Than 0.4sec , And Corresponds to The Standard .

Hop rate-2402MHz

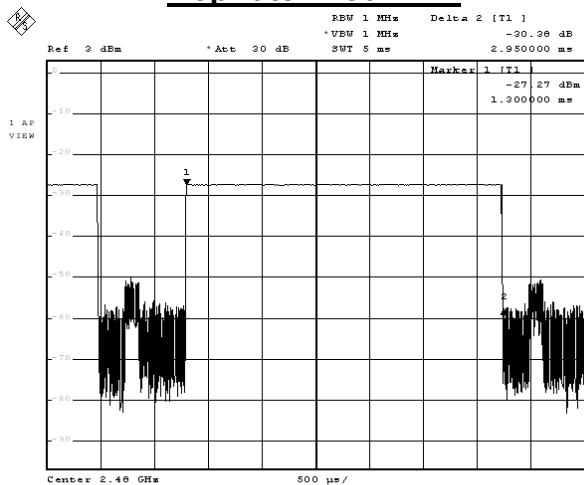


Hop rate-2441MHz



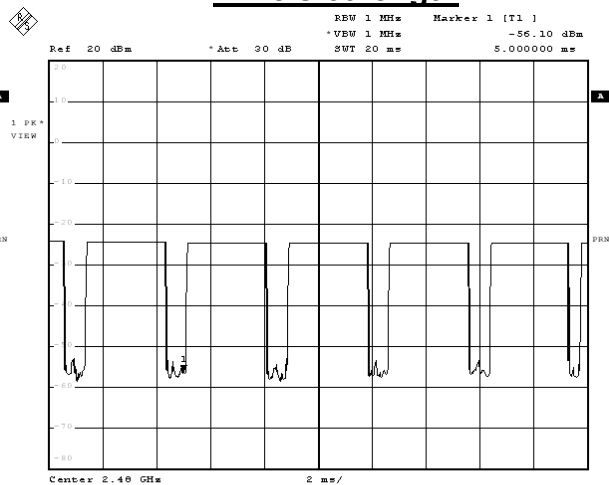
Date: 13.APR.2007 11:55:32

Hop rate-2480MHz



Date: 13.APR.2007 11:58:09

Time slot length



Date: 13.APR.2007 12:00:25

Date: 13.APR.2007 12:55:09

Note: Dwell time = time slot length * hop rate / number of hopping channels * period