Test Report

Product Name ： Wireless GPS Receiver
Model No. ： i-Blue737A+
FCC ID. ： OUP971260101

Applicant ： TRANSYSTEM INC.
Address ： No.1-2, Li-Hsin Rd.1, Science-Based Industrial Park, Hsinchu, Taiwan R.O.C.

Date of Receipt ： 2008/10/27
Issued Date ： 2008/11/27
Report No. ： 08B006R-RFUSP06V01
Version ： V1.0

Test Report Certification

Issued Date : 2008/11/27
Report No. : 08B006R-RFUSP06V01

QuieTek

Product Name	:	Wireless GPS Receiver
Applicant	:	TRANSYSTEM INC.
Address	:	No.1-2, Li-Hsin Rd.1, Science-Based Industrial Park, Hsinchu, Taiwan R.O.C.
Manufacturer	:	TRANSYSTEM INC.
Model No.	:	i-Blue737A+
FCC ID.	:	OUP971260101
Rated Voltage	:	AC 120 V / 60 Hz
EUT Voltage	:	AC 120 V / 60 Hz
Trade Name	:	TSI
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2007
Test Result	:	Complied

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.

Documented By : Demi Chang

(Demi Chang / Engineering Adm. Specialist)

Tested By : Sheena Huang

(Sheena Huang / Engineer)

Approved By : Roy Wang

(Roy Wang / Manager)

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1. General Information

1.1. EUT Description

Product Name	Wireless GPS Receiver
Trade Name	TSI
Model No.	i-Blue737A+
Frequency Range	2402~2480MHz
Channel Number	79
Type of Modulation	FHSS
Channel Control	Auto
Antenna Type	Soldered on PCB
Antenna Gain	0dBi

Component	
Car Charger	mobileconn, mb-st1-5050 Non-Shielded, 1.47m
USB Cable	Shielded, 0.57m
Li-ion Battery	HELIX, HX-N3650A RATING: 3.7V
Power Adapter	Sunny, SYS1306-0305-W2 I/P: 100~240V, 0.1A MAX, 50~60Hz, 1~10VA O/P: +5V, 0.5A, 2.5W MAX Cable Out: Non-Shielded, 1.82m

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 Wireless GPS Receiver 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 normal was measured and made a test report that the report number is 08B006R-RFUSP01V02 under Declaration of Conformity.

1.2. Operational Description

The EUT is 2.4GHz wireless GPS Trip Recorder Channel Bluetooth GPS Data Logger. Bluetooth technology operates frequency band at 2402MHz to 2480MHz, Bluetooth Version is V1.2 / SPP profile.

Using a spread spectrum, frequency hopping . The signal hops among 79 frequencies at 1 MHz intervals to give a high degree of interference immunity.

This adaptive hopping allows for more efficient transmission within the spectrum, providing users with greater performance even if using other technologies along with Bluetooth technology.

Some vehicles having heavy metallic sun protecting coating on windshields may affect GPS signal receptions. Driving in and around high buildings may affect GPS signal receptions. In general, any GPS receiver performs best in open space where it can see clear sky. iBT-GPS outputs data every second, therefore the actual position and the position shown in your map may have slight time delay. This may happen when you drive at higher speed or make a turn around a corner.

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 (USB) Mode 2: Transmit (Car Charger) Mode 3: Transmit (Adapter)
Final Test Mode	
EMI	Mode 1: Transmit (USB) Mode 2: Transmit (Car Charger) Mode 3: Transmit (Adapter)

Emission	Mode 1	Mode 2	Mode 3
Conducted Emission	No	No	No
Peak Power Output	No	No	No
Radiated Emission	Yes	Yes	Yes
Band Edge	No	No	No
Channel of Number	No	No	No
Channel Separation	No	No	No
Occupied Bandwidth	No	No	No
Dwell Time	No	No	No

1.4. Tested System Details

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

Test Mode		Mode 1: Transmit (USB)				
Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Monitor	GENVINE	G585	FK9106875	DoC	Non-shielded, 1.8m
2	Modem	ACEEX	DM-1414	0102027544	DoC	Non-shielded, 1.6m
3	Microphone & Earphone	Fujiei	SBZ-38	N/A	DoC	--
4	Mouse	Logitech	M-SBF83	HCA52200288	DoC	--
5	Digital 8 (D8)	SONY	DCR-TRV110	P35209	DoC	--
6	Notebook PC	DELL	LATITUDE D400	GK43D1S	DoC	Non-shielded, 1.7m, a ferrite core bonded

Test Mode		Mode 2: Transmit (Car Charger)				
Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Li-ion Battery	HELIX,	HX-N3650A	N/A	DoC	--
2	Car charger	mobileconn	mb-st1-5050	N/A	DoC	Non-Shielded, 1.47m

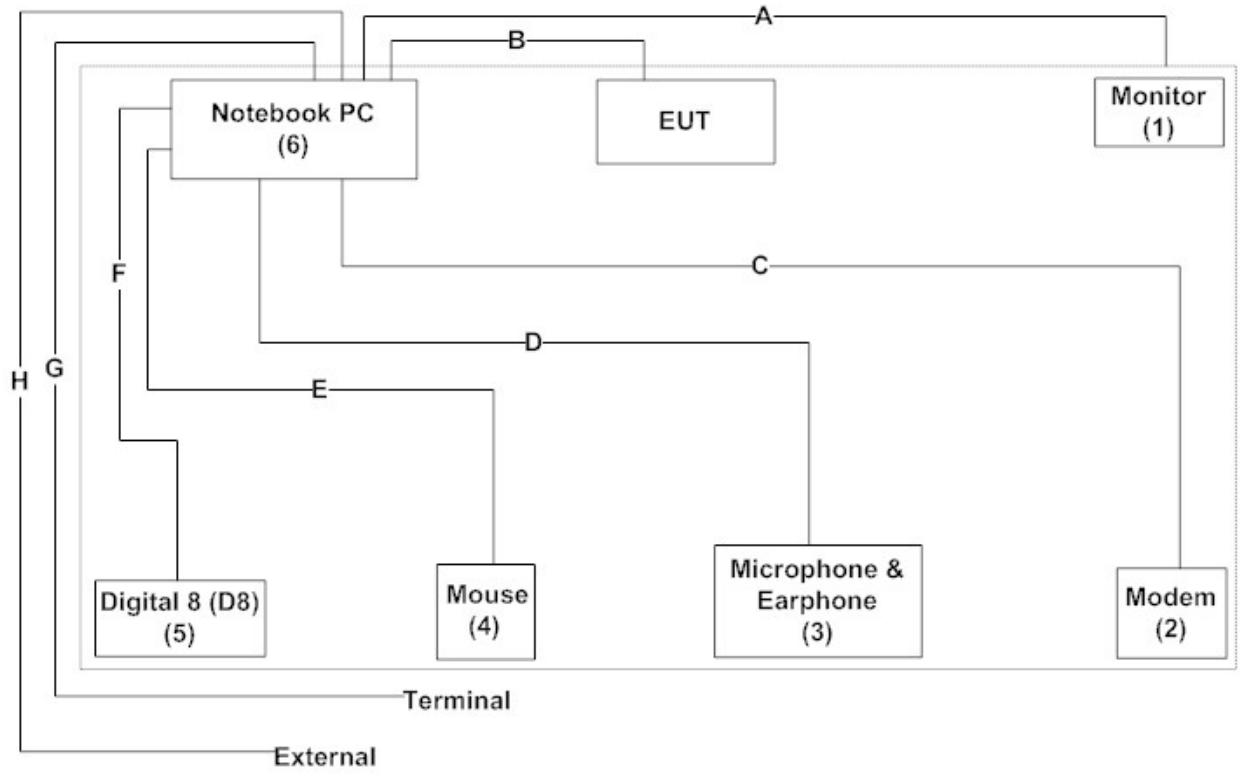
Test Mode	Mode 3: Transmit (Adapter)

N/A

1.5. Configuration of tested System

Test Mode	Mode 1: Transmit (USB)

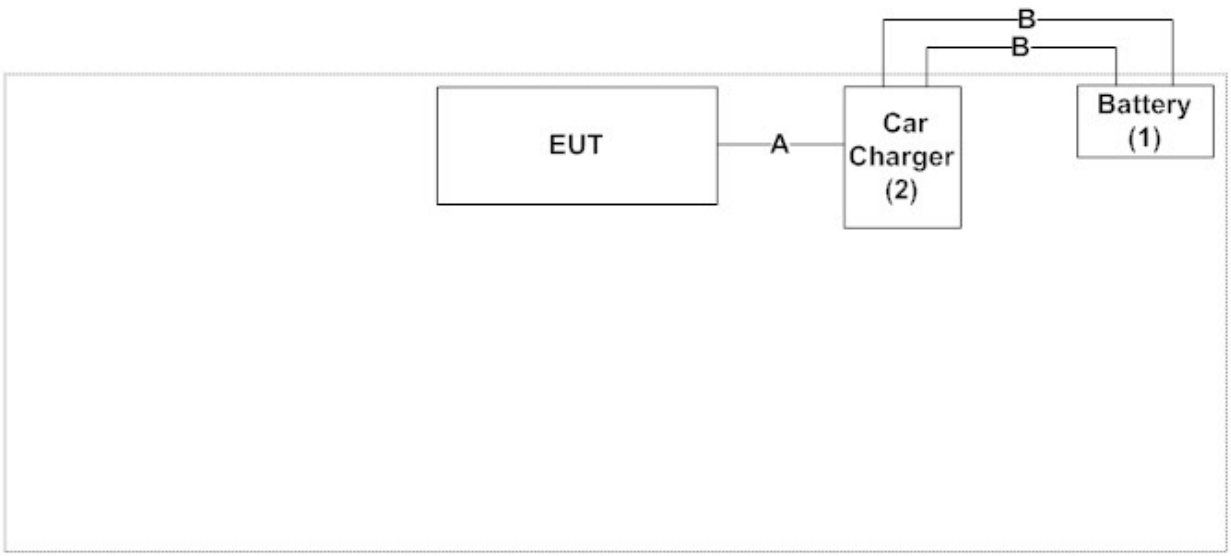
Connection Diagram



Signal Cable Type		Signal cable Description
A	VGA Cable	Shielded, 1.6m, one ferrite core bonded.
B	USB Cable	Shielded, 0.57m
C	Modem Cable	Shielded, 1.5m
D	Earphone Cable	Non-Shielded, 1.2m
E	Mouse Cable	Shielded, 1.0m
F	1394 Cable	Shielded, 1.0m
G	LAN Cable	Non-Shielded, 10m
H	Telecom Cable	Non-Shielded, 10m

Test Mode	Mode 2: Transmit (Car Charger)

Connection Diagram



Signal Cable Type		Signal cable Description
A	Power Line	Non-Shielded, 1.47m
B	Power Line	Non-Shielded, 1m, 2 PCS

Test Mode	Mode 3: Transmit (Adapter)

Connection Diagram

1.6. EUT Exercise Software

1	Setup the EUT and Notebook PC as shown on 1.5.
2	Turn on the power of all equipment.
3	Data will be continue transmitting through EUT.
4	Repeat the above procedure (2) to (3)

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 TAF
Accreditation Number: 1313
Effective through: December 27, 2010

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2009

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. Peak Power Output

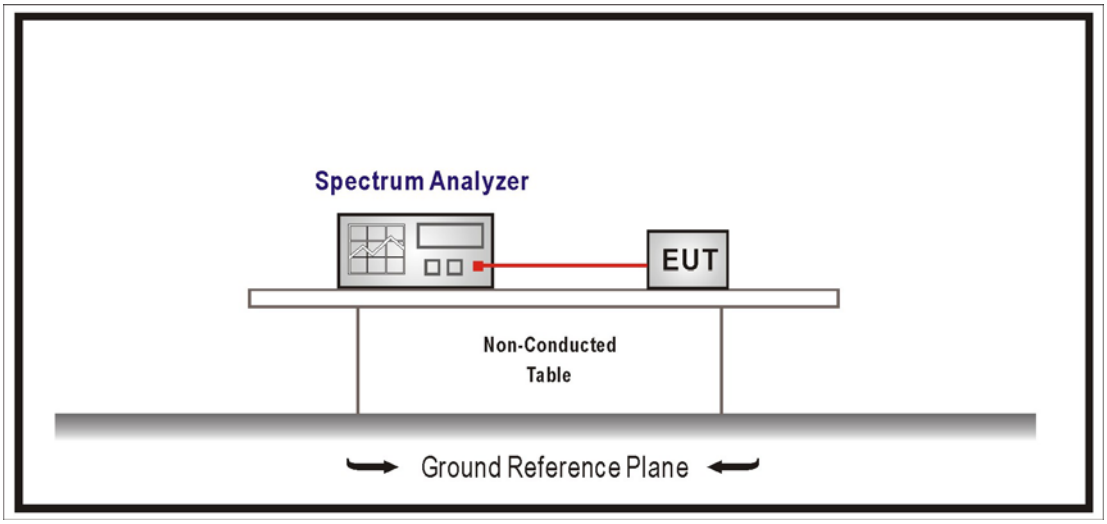
2.1. Test Equipment

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., 2008
2	No.1 OATS			Sep., 2008

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

2.2. Test Setup



2.3. 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.

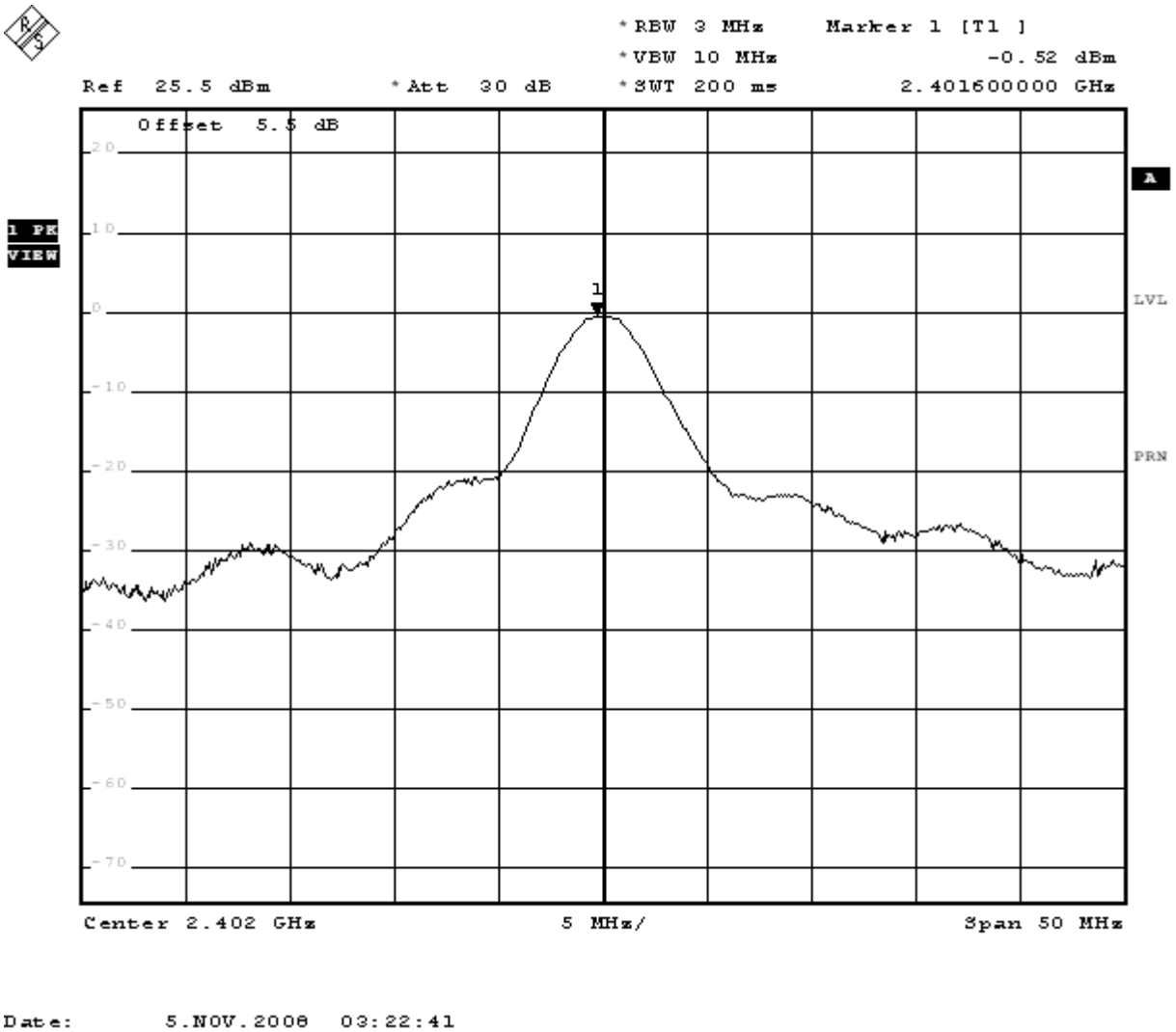
2.4. Test Specification

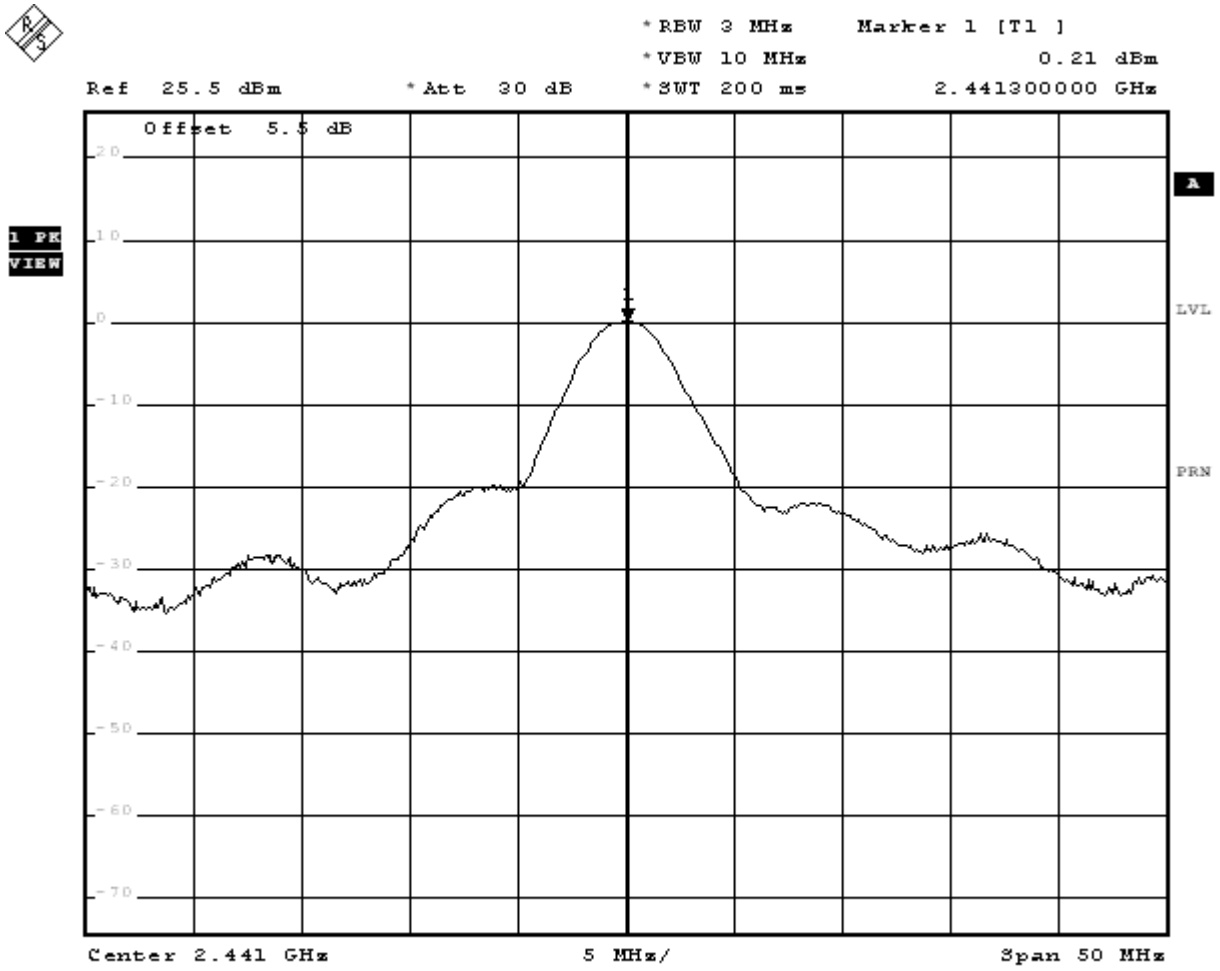
According to FCC Part 15 Subpart C Paragraph 15.247: 2007

2.5. Test Result

Product	Wireless GPS Receiver		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2008/11/20	Test Site	No.1 OATS

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402.00	-0.52	1Watt = 30 dBm	Pass
39	2441.00	0.21	1Watt = 30 dBm	Pass
78	2480.00	0.78	1Watt = 30 dBm	Pass





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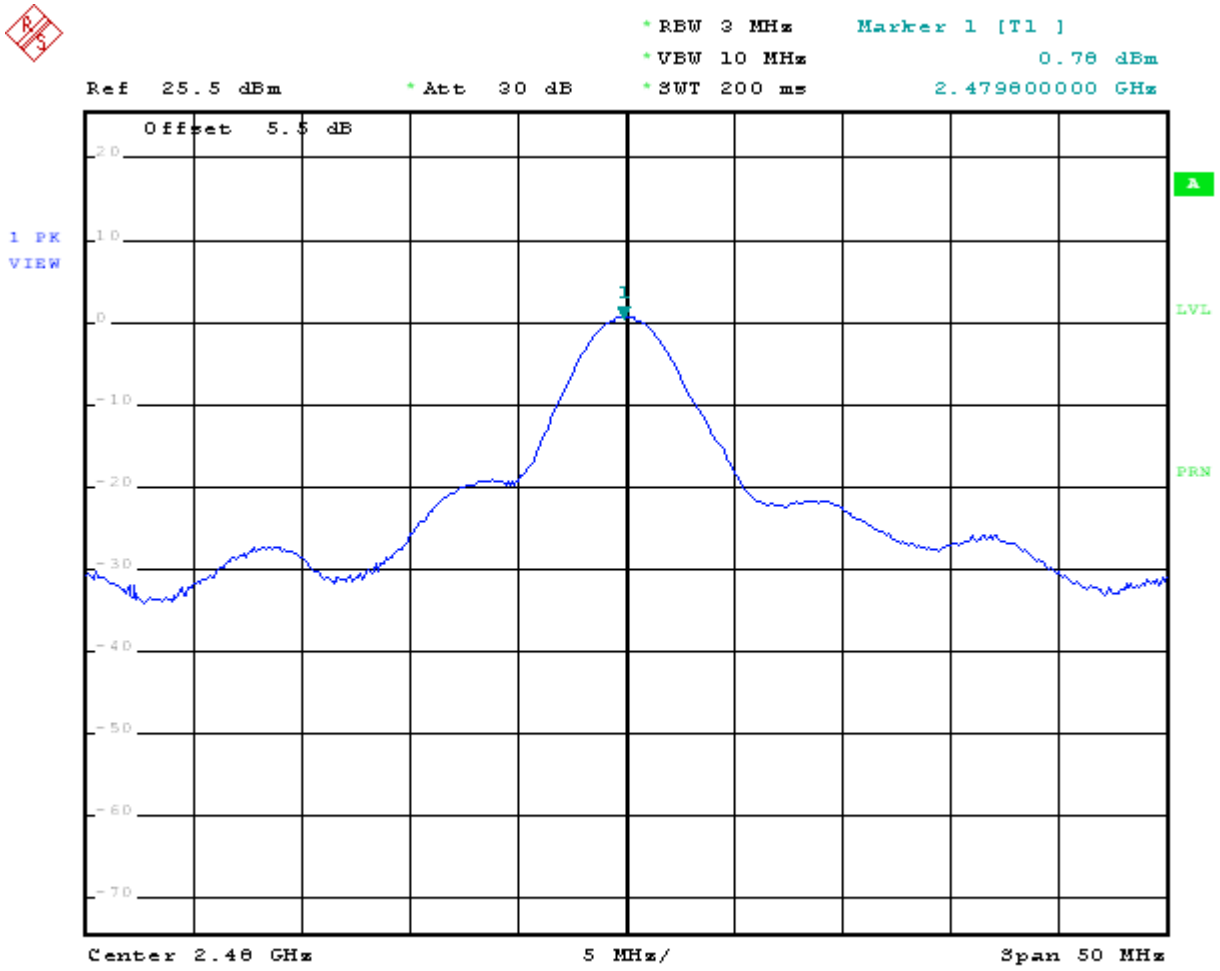


Date: 5.NOV.2008 03:28:44

3. Radiated Emission

3.1. Test Equipment

The following test equipment are used during the test:

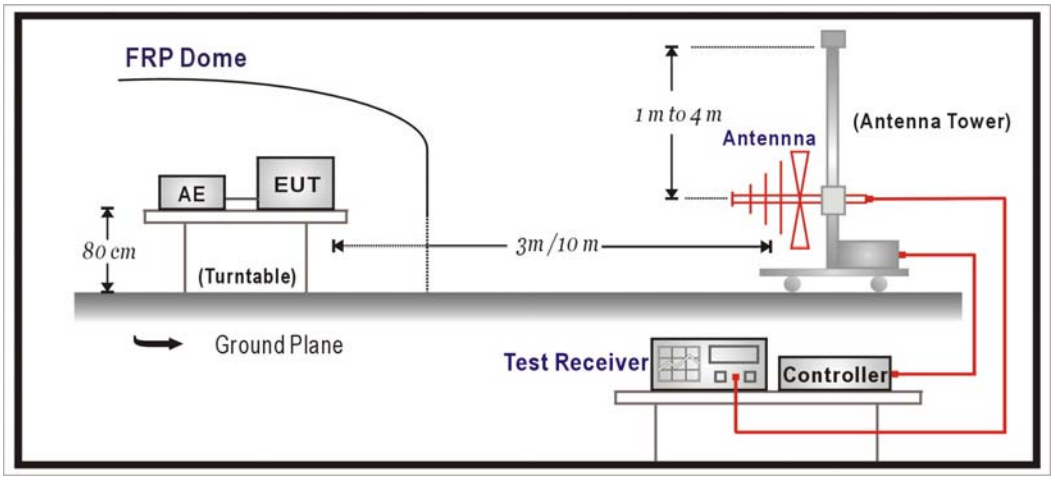
Radiated Emission / Site1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2895	2008/09/03
Horn Antenna	Electro Metrics	EM-6961	103325	2008/03/15
Pre-Amplifier	HP	8449B	3008A01123	2008/11/15
Pre-Amplifier	Quietek	AP-025C	N/A	N/A
Spectrum Analyzer	R & S	FSP40	100005	2008/08/25
Spectrum Analyzer	Advantest	R3162	120300649	2007/11/24
Test Receiver	R & S	ESCS 30	825442/017	2008/02/13

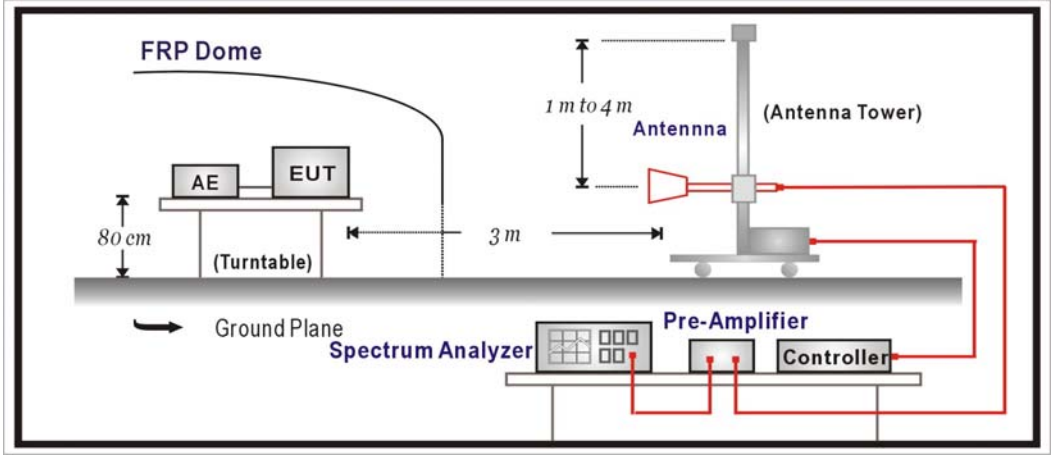
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark “X” test instruments are used to measure the final test results.

3.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



3.3. 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.

3.4. 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.

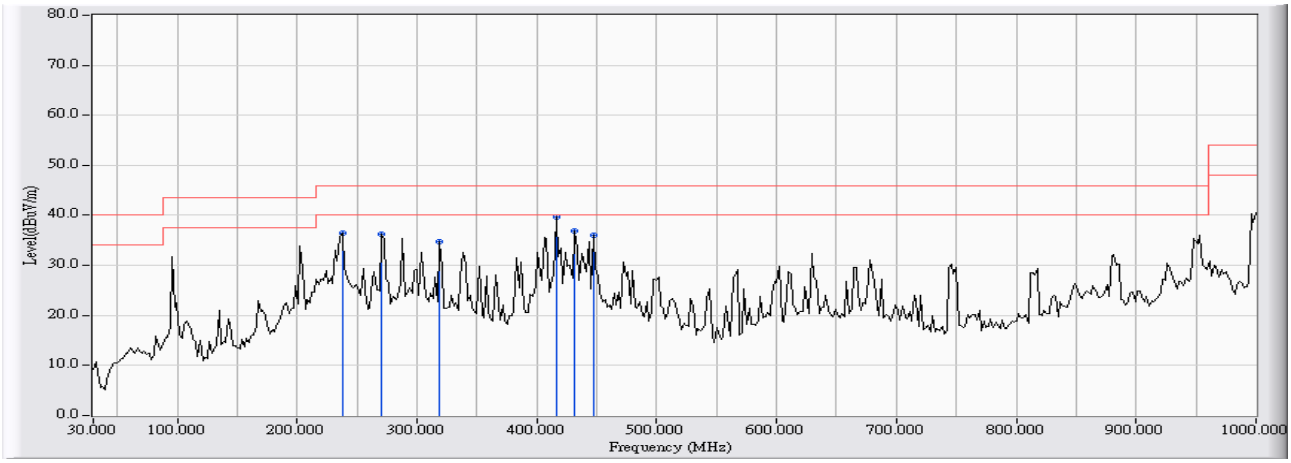
3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2007

3.6. Test Result

30MHz-1GHz Spurious:

Site : Site1	**Time : 2008/11/06 - 09:21**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site1_FCC_30-1G(2008-9) - HORIZONTAL	**Power : AC 120V/50Hz**
EUT : Wireless GPS Receiver	**Note : Mode 1: Transmit (USB) TX**

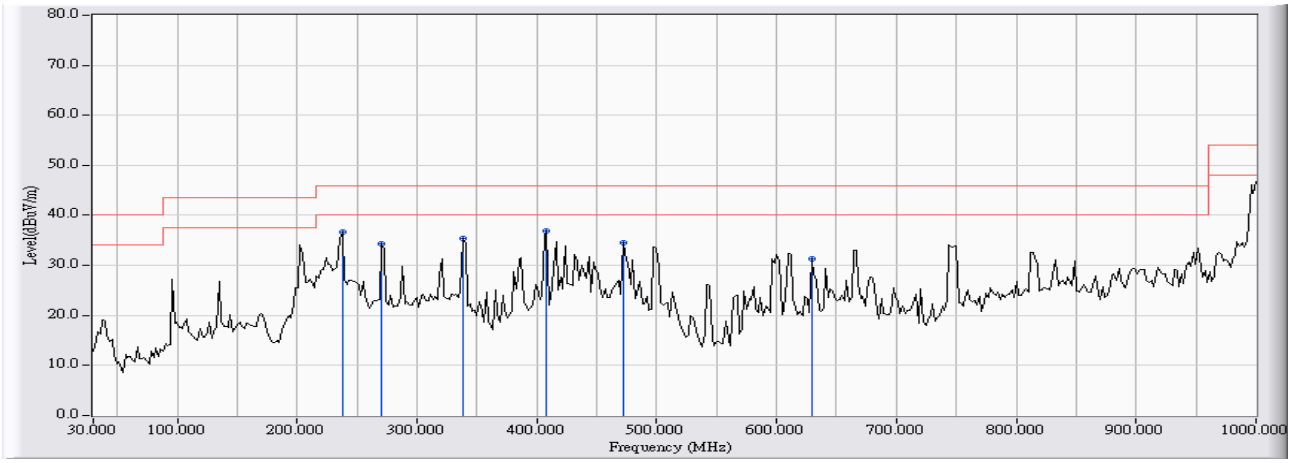


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		237.580	-12.618	49.020	36.401	-9.599	46.000	QUASIPEAK
2		270.560	-12.258	48.536	36.278	-9.722	46.000	QUASIPEAK
3		319.060	-10.076	44.735	34.659	-11.341	46.000	QUASIPEAK
4	*	416.060	-3.958	43.739	39.781	-6.219	46.000	QUASIPEAK
5		431.580	-5.696	42.642	36.946	-9.054	46.000	QUASIPEAK
6		447.100	-5.918	41.920	36.002	-9.998	46.000	QUASIPEAK

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 : Site1	**Time : 2008/11/06 - 09:24**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site1_FCC_30-1G(2008-9) - VERTICAL	**Power : AC 120V/50Hz**
EUT : Wireless GPS Receiver	**Note : Mode 1: Transmit (USB) TX**

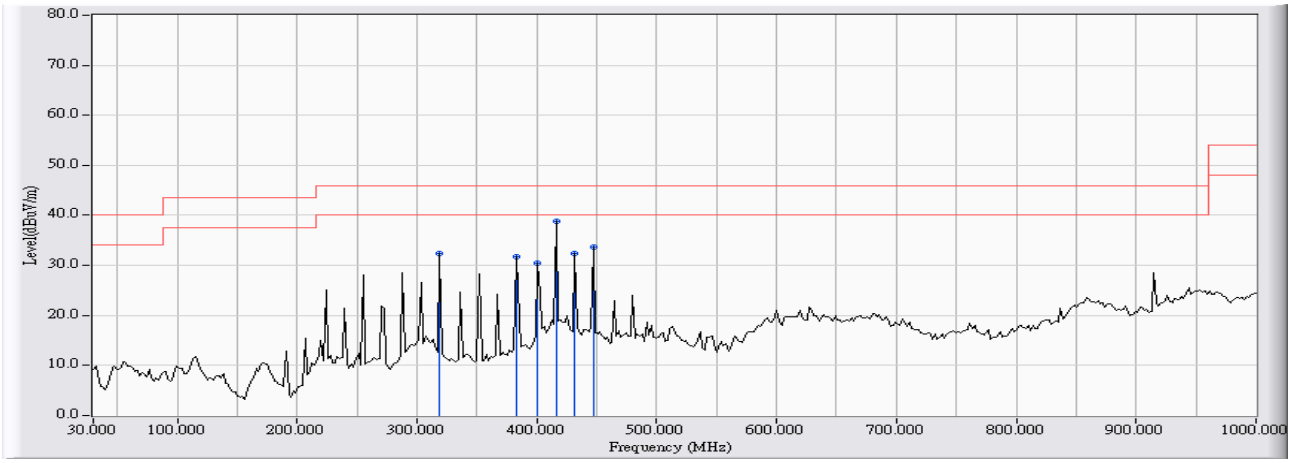


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		237.580	-12.169	48.765	36.596	-9.404	46.000	QUASIPEAK
2		270.560	-16.063	50.419	34.356	-11.644	46.000	QUASIPEAK
3		338.460	-11.044	46.440	35.396	-10.604	46.000	QUASIPEAK
4	*	408.300	-5.933	42.843	36.910	-9.090	46.000	QUASIPEAK
5		472.320	-3.604	38.205	34.601	-11.399	46.000	QUASIPEAK
6		629.460	-3.118	34.347	31.228	-14.772	46.000	QUASIPEAK

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 : Site1	**Time : 2008/11/06 - 09:32**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site1_FCC_30-1G(2008-9) - HORIZONTAL	**Power : AC 120V/50Hz**
EUT : Wireless GPS Receiver	**Note : Mode 2: Transmit (Car Charger)TX**

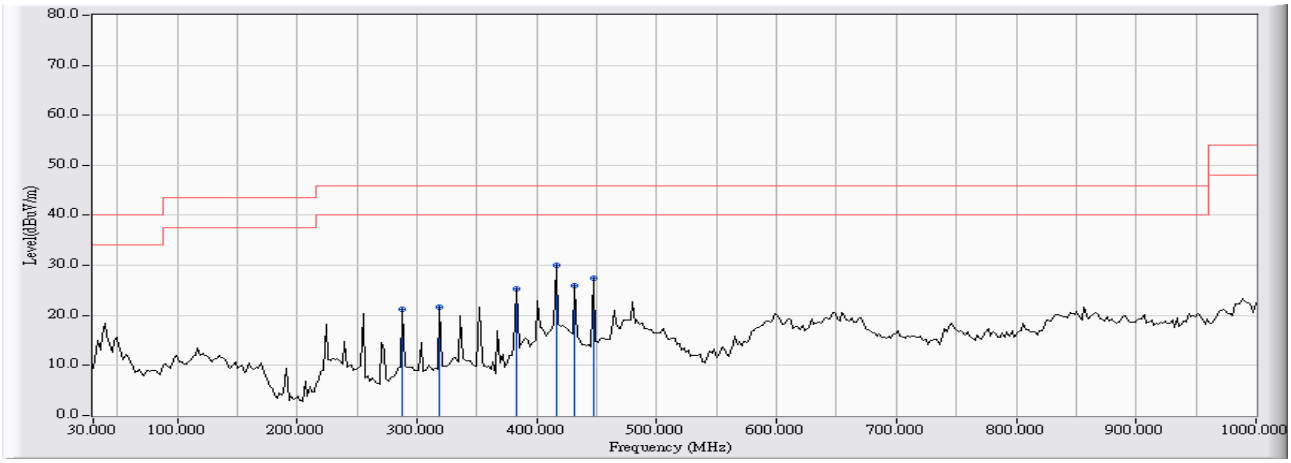


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		319.060	-10.076	42.391	32.315	-13.685	46.000	QUASIPEAK
2		383.080	-9.674	41.479	31.805	-14.195	46.000	QUASIPEAK
3		400.540	-6.401	36.832	30.431	-15.569	46.000	QUASIPEAK
4	*	416.060	-3.958	42.673	38.715	-7.285	46.000	QUASIPEAK
5		431.580	-5.696	38.006	32.310	-13.690	46.000	QUASIPEAK
6		447.100	-5.918	39.679	33.761	-12.239	46.000	QUASIPEAK

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 : Site1	**Time : 2008/11/06 - 09:36**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site1_FCC_30-1G(2008-9) - VERTICAL	**Power : AC 120V/50Hz**
EUT : Wireless GPS Receiver	**Note : Mode 2: Transmit (Car Charger)TX**

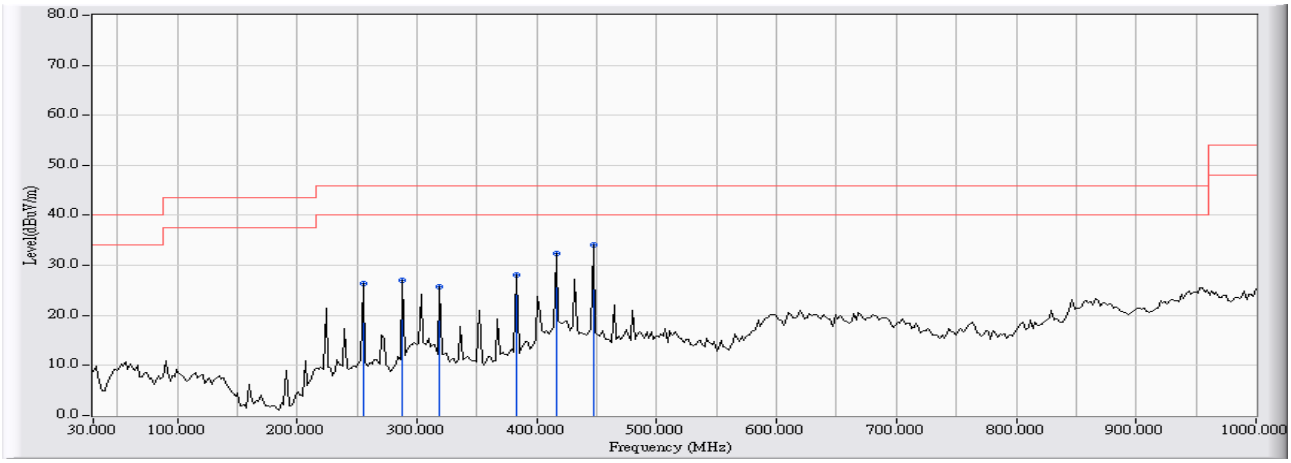


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		288.020	-12.627	33.827	21.200	-24.800	46.000	QUASIPEAK
2		319.060	-12.721	34.337	21.616	-24.384	46.000	QUASIPEAK
3		383.080	-9.189	34.454	25.265	-20.735	46.000	QUASIPEAK
4	*	416.060	-4.071	34.074	30.003	-15.997	46.000	QUASIPEAK
5		431.580	-6.248	32.192	25.944	-20.056	46.000	QUASIPEAK
6		447.100	-7.989	35.473	27.484	-18.516	46.000	QUASIPEAK

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 : Site1	**Time : 2008/11/06 - 09:46**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site1_FCC_30-1G(2008-9) - HORIZONTAL	**Power : AC 120V/50Hz**
EUT : Wireless GPS Receiver	**Note : Mode 3: Transmit (Adapter)TX**

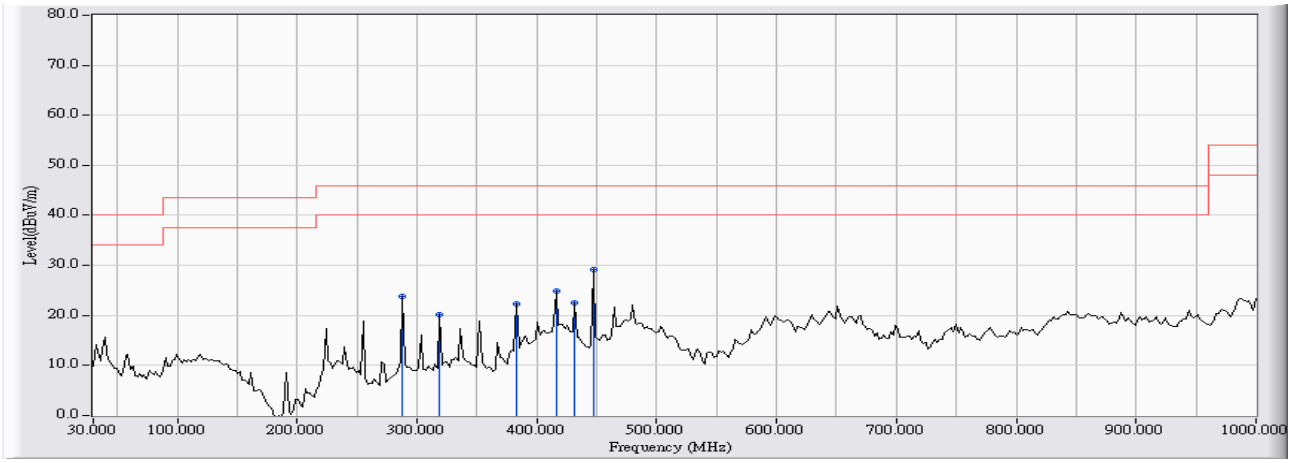


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		255.040	-11.994	38.424	26.430	-19.570	46.000	QUASIPEAK
2		288.020	-10.642	37.687	27.045	-18.955	46.000	QUASIPEAK
3		319.060	-10.076	35.805	25.729	-20.271	46.000	QUASIPEAK
4		383.080	-9.674	37.830	28.156	-17.844	46.000	QUASIPEAK
5		416.060	-3.958	36.303	32.345	-13.655	46.000	QUASIPEAK
6	*	447.100	-5.918	40.114	34.196	-11.804	46.000	QUASIPEAK

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 : Site1	**Time : 2008/11/06 - 09:50**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site1_FCC_30-1G(2008-9) - VERTICAL	**Power : AC 120V/50Hz**
EUT : Wireless GPS Receiver	**Note : Mode 3: Transmit (Adapter)TX**



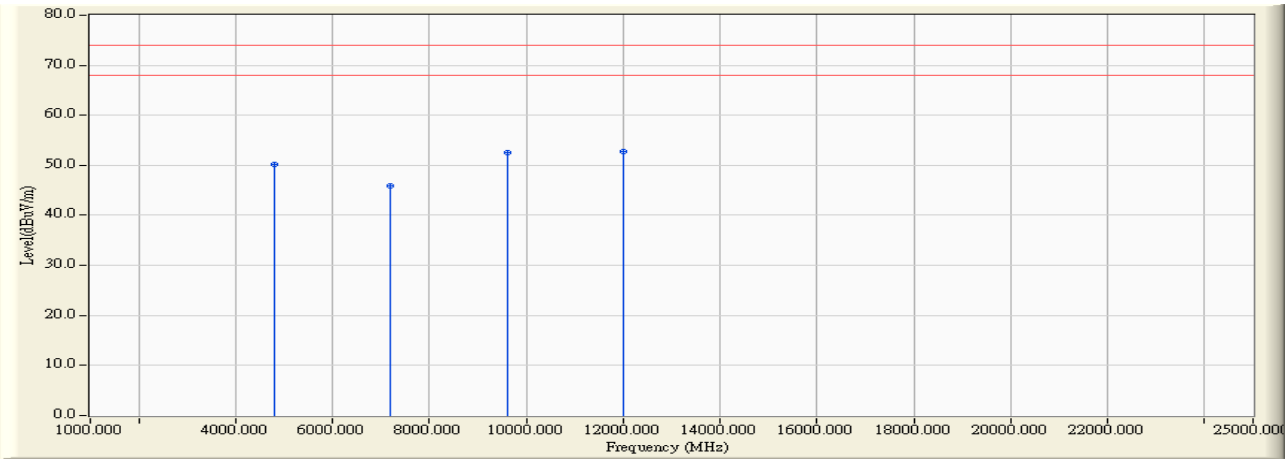
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		288.020	-12.627	36.347	23.720	-22.280	46.000	QUASIPEAK
2		319.060	-12.721	32.988	20.267	-25.733	46.000	QUASIPEAK
3		383.080	-9.189	31.523	22.334	-23.666	46.000	QUASIPEAK
4		416.060	-4.071	28.946	24.875	-21.125	46.000	QUASIPEAK
5		431.580	-6.248	28.748	22.500	-23.500	46.000	QUASIPEAK
6	*	447.100	-7.989	37.098	29.109	-16.891	46.000	QUASIPEAK

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 : Site1	**Time : 2008/11/05 - 13:36**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB4_FCC_1-18G(2008-05) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless GPS Receiver	**Note : TX-2402**

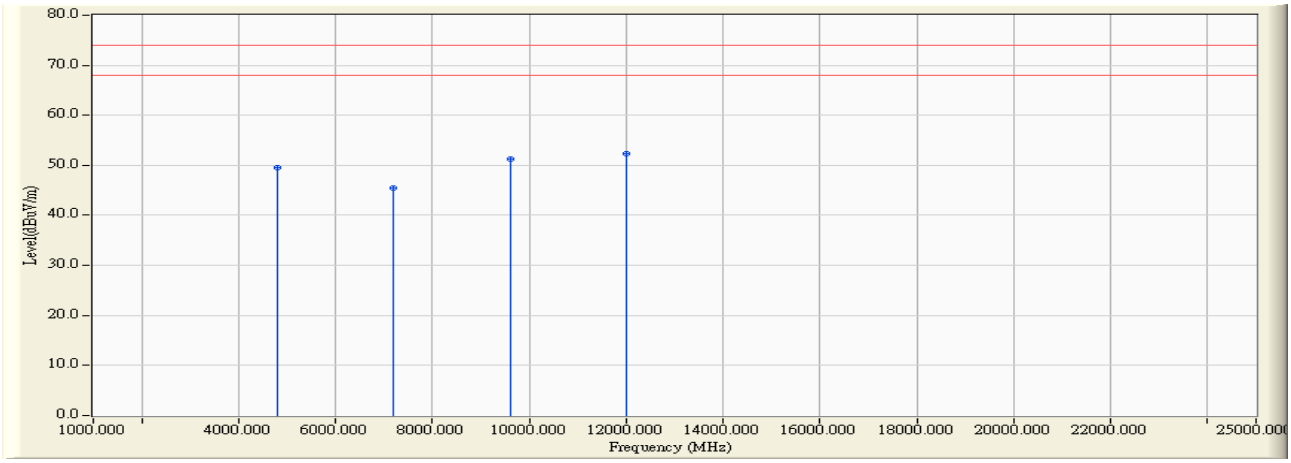


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.080	3.055	47.080	50.135	-23.865	74.000	PEAK
2		7205.960	6.947	38.950	45.897	-28.103	74.000	PEAK
3		9608.000	14.964	37.550	52.514	-21.486	74.000	PEAK
4	*	12010.040	16.680	36.020	52.700	-21.300	74.000	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 : Site1	**Time : 2008/11/05 - 13:46**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB4_FCC_1-18G(2008-05) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless GPS Receiver	**Note : TX-2402**

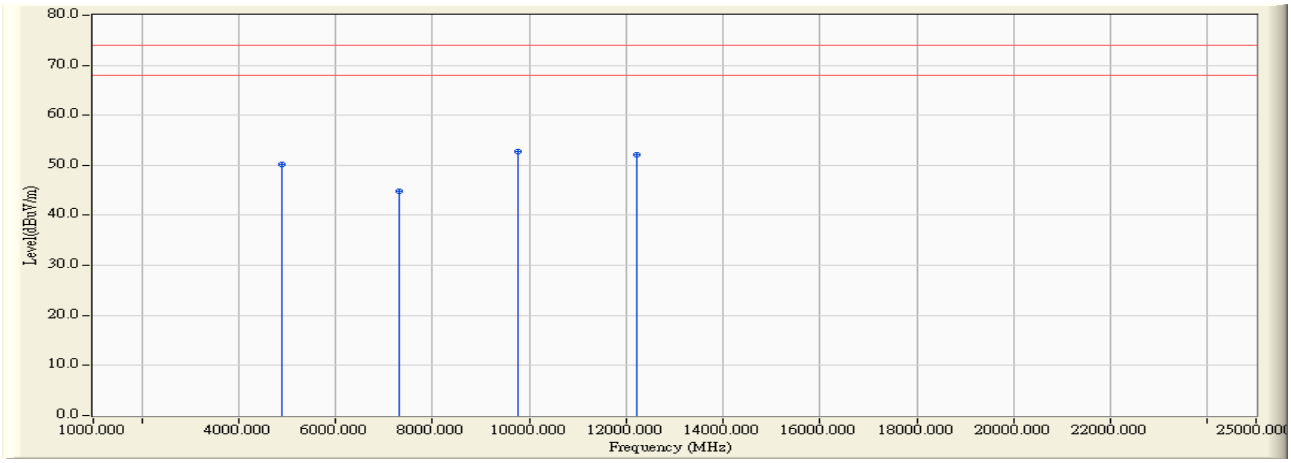


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.080	3.055	46.550	49.605	-24.395	74.000	PEAK
2		7205.960	7.359	38.080	45.439	-28.561	74.000	PEAK
3		9608.020	13.750	37.500	51.250	-22.750	74.000	PEAK
4	*	12010.040	16.660	35.720	52.381	-21.619	74.000	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 : Site1	**Time : 2008/11/05 - 13:59**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB4_FCC_1-18G(2008-05) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless GPS Receiver	**Note : TX-2441**

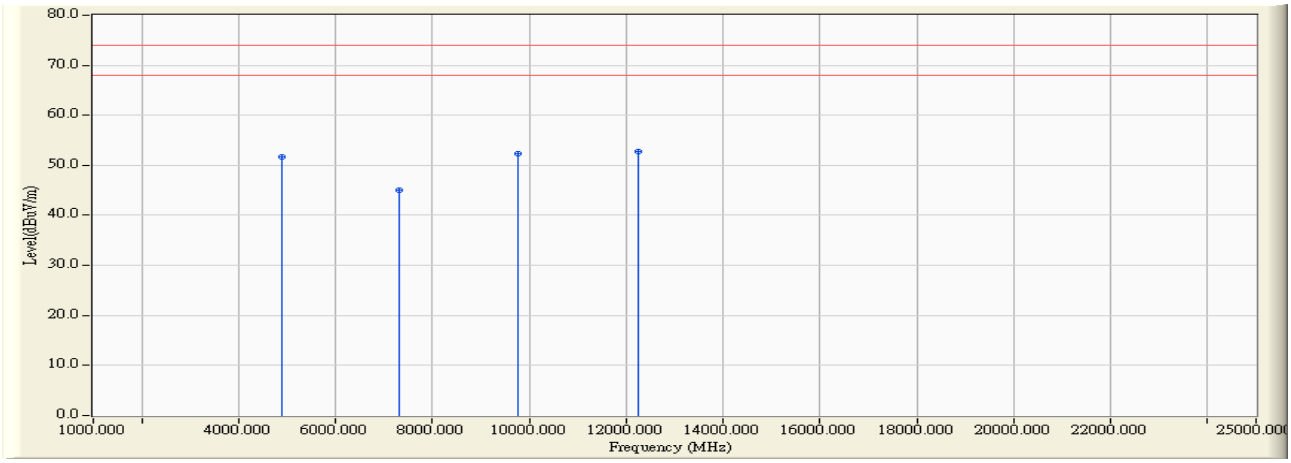


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4882.120	3.306	46.820	50.125	-23.875	74.000	PEAK
2		7323.040	7.021	37.720	44.741	-29.259	74.000	PEAK
3	*	9764.020	15.492	37.270	52.762	-21.238	74.000	PEAK
4		12205.120	17.263	34.860	52.124	-21.876	74.000	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 : Site1	**Time : 2008/11/05 - 14:11**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB4_FCC_1-18G(2008-05) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless GPS Receiver	**Note : TX-2441**

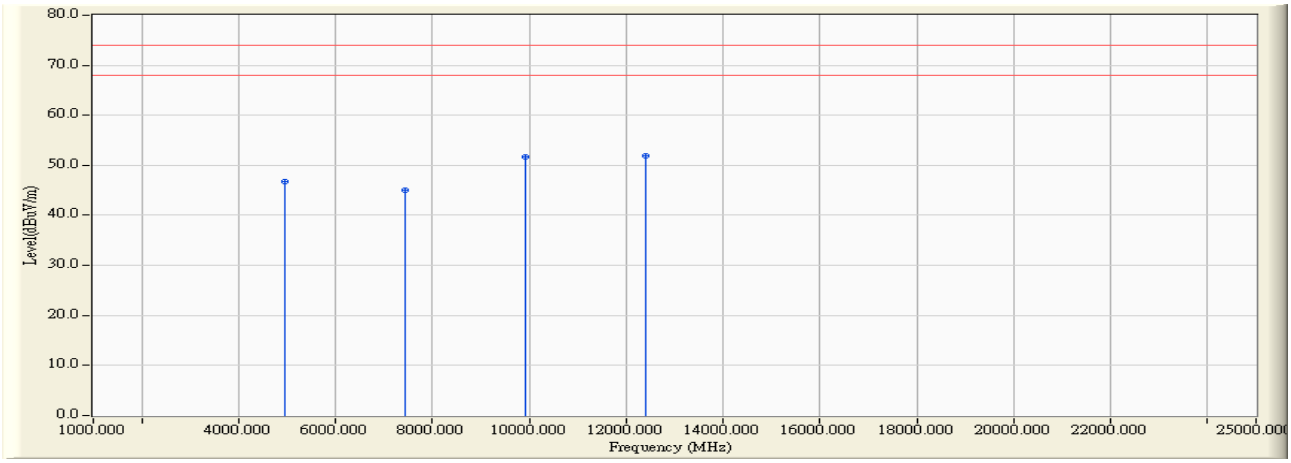


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4882.120	3.306	48.380	51.685	-22.315	74.000	PEAK
2		7323.040	7.668	37.390	45.059	-28.941	74.000	PEAK
3		9764.000	13.966	38.270	52.236	-21.764	74.000	PEAK
4	*	12250.120	16.907	35.760	52.667	-21.333	74.000	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 : Site1	**Time : 2008/11/05 - 14:32**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB4_FCC_1-18G(2008-05) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless GPS Receiver	**Note : TX-2480**

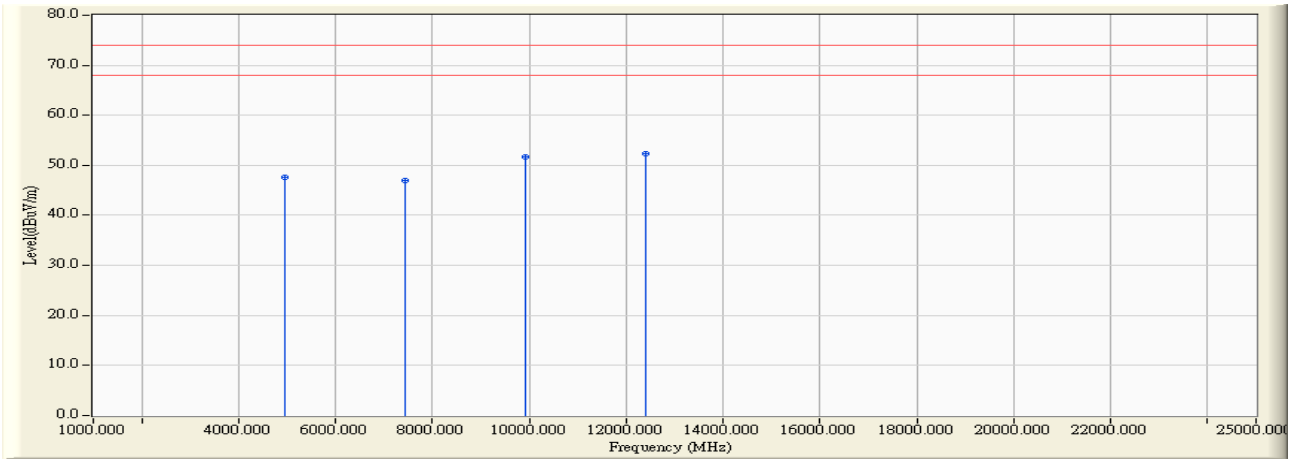


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.080	3.550	43.210	46.760	-27.240	74.000	PEAK
2		7440.080	7.124	37.910	45.034	-28.966	74.000	PEAK
3		9919.960	16.025	35.560	51.585	-22.415	74.000	PEAK
4	*	12400.040	17.860	33.980	51.840	-22.160	74.000	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 : Site1	**Time : 2008/11/05 - 14:42**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB4_FCC_1-18G(2008-05) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless GPS Receiver	**Note : TX-2480**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.080	3.550	44.070	47.620	-26.380	74.000	PEAK
2		7440.042	8.007	39.010	47.017	-26.983	74.000	PEAK
3		9919.840	14.183	37.530	51.713	-22.287	74.000	PEAK
4	*	12400.040	17.062	35.210	52.272	-21.728	74.000	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.