Certificate of Test

May 2008

Primary Communications, Inc.

Product Type : Mobile Phone Bluetooth Docking Device

Model Number : U118

Test Report Number : 0802014R-01

Date of Test : February 20, 2008- March 07, 2008

This Product was tested to the following standards at the laboratory of Global EMC Standard Tech. Corp., and found Compliance.

Standards:

FCC Part 15 Subpart C Paragraph 15.247

ANSI C63.4: 2003

http://www.gestek.com.tw

Mille

Sharon Chang, President

GESTEC EMC LA3

No. 3, Pau-Tou-Tsuo Valley, Chia-Pau Tsuen, Lin Kou Hsiang, Taipei County, Taiwan, R.O.C. TEL:886-2-2603-5321 FAX:886-2-2603-5325

Date: May 12, 2008

















Primary Communications, Inc.

EUT:

Mobile Phone Bluetooth Docking Device Model Number:

U118

FCC ID:

V5C-PMC88U118 Prepared for:

Primary Communications, Inc. 2430 W. Mulberry Dr., Chandler, AZ 85248, USA

Report By :Global EMC Standard Tech. Corp.
No.3 Pau-Tou-Tsuo Valley, Chia-Pau
Tsuen, Lin Kou Hsiang, Taipei County,
Taiwan, R.O.C.

Tel: 886-2-2603-5321 Fax: 886-2-2603-5325

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1. CERTIFICATION

Applicant: Primary Communications, Inc.

Applicant Address : 2430 W. Mulberry Dr., Chandler, AZ 85248, USA

EUT Description : Mobile Phone Bluetooth Docking Device

Model Number : U118 Serial Number : N/A

Brade Name : Ufone, Ueye, PMC, Q-Lynx

FCC ID : V5C-PMC88U118 Tested Power Supply : AC 100-240V, 50/60Hz

Manufacturer : Universial Microelectronics Co., Ltd.

Manufacturer Address : No. 3, 27th Rd., Taichung Industrial Park, Taichung 408, Taiwan,

R.O.C.

MEASUREMENT PROCEDURES USED:

☑ CFR 47, Part 15 Radio Frequency Device Subpart C Intentional Radiators :2007

✓ ANSI C63.4 Methods of Measurements of Radio-Noise Emissions from Low- Voltage

Electrical and Electronic Equipment in the range of 9kHz To 40GHz.

2003

THE MEASUREMENT SHOWN IN THE ATTACHMENT WAS MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE MAXIMUM ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE ABOVE LIMITS APPLICABLE.

Sample Received Date: January 17, 2008

Date of Test : February 20, 2008 - March 07, 2008

NVLAP LAB CODE 200085-0

In order to ensure the quality and accuracy of this document, the contents have been thoroughly reviewed by the following qualified personnel from GesTek Lab.

Documented By:

Tested By

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John Wu / eng. Dept. Engineer

Approved By:

Tonny Lim General Manager

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Tel:886-2-2603-5321 Fax:886-2-2603-5325

2. GENERAL INFORMATION

2.1 PRODUCTION DESCRIPTION

Product Name : Mobile Phone Bluetooth Docking Device

Model Number : U118

Serial Number : N/A

Brade Name : Ufone, Ueye, PMC, Q-Lynx

FCC ID : V5C-PMC88U118

Modulation Type : FHSS
Antenna Gain : 1dBi

Antenna Type : Printed on PCB

Frequency Range : 2402MHz to 2480MHz

Channel Number : 79 Channel

Channel Control : Control by Software

Working Voltage : AC 120V/60Hz

Frequency of Each Channel:

Frequency of Each Chainer.						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
1	2402	28	2429	55	2456	
2	2403	29	2430	56	2457	
3	2404	30	2431	57	2458	
4	2405	31	2432	58	2459	
5	2406	32	2433	59	2460	
6	2407	33	2434	60	2461	
7	2408	34	2435	61	2462	
8	2409	35	2436	62	2463	
9	2410	36	2437	63	2464	
10	2411	37	2438	64	2465	
11	2412	38	2439	65	2466	
12	2413	39	2440	66	2467	
13	2414	40	2441	67	2468	
14	2415	41	2442	68	2469	
15	2416	42	2443	69	2470	
16	2417	43	2444	70	2471	
17	2418	44	2445	71	2472	
18	2419	45	2446	72	2473	
19	2420	46	2447	73	2474	
20	2421	47	2448	74	2475	
21	2422	48	2449	75	2476	
22	2423	49	2450	76	2477	
23	2424	50	2451	77	2478	
24	2425	51	2452	78	2479	
25	2426	52	2453	79	2480	
26	2427	53	2454			
27	2428	54	2455			

Note:

- 1. This device is a Mobile Phone Bluetooth Docking Device include Bluetooth function and this report is for transmitter.
- 2. Test of channel was included the lowest middle and highest frequency in highest data rate and to perform the test, then record on this report.
- 3. 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.
- 4. The device is a transceiver equipement to accordance with Part 15 regulations. The function receiving was under Declaration of Conformity and record of measurment in test report that the report number is 0802014F-01.
- 5. The EUT has series brade names, because of the requirement of marketing.

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2.2 OPERATIONAL DESCRIPTION

The device have two RJ11 port, one port link to exchange board which from phone server company another port link to telephone set. The device have Bluetooth function which can link to mobile phone, then use device to answer incoming call or dialing out from mobile sevice. Another information please refer to users manual.

2.3 TEST MODES & EUT COMPONENTS DESCRIPTION

EUT: Mobile Phone Bluetooth Docking Device, M/N: U118, The EUT tested with Notebook PC. (DELL, M/N: Latitude D600 PPO5L)					
Test Mode 1- Transmit + Adapter					
	UMEC, M/N: UP0181B-12PE,				
Adoutou	AC Input: 100-240V, 50/60Hz, 0.4A Max,				
Adapter	DC Output: +12V, 1A, 12W MAX,				
	2Pin, 1.8m, Non-Shielded, Non Core				
Telephone Line 1.8m, Non Shielded, Non Core					

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2.4 SUMMARY OF TEST PROCEDURE AND TEST RESULTS

Test Item	Applied Standard Section	Test Resut
Conduction Emission	15.207, ANSI C63.4 Section 7	Pass (refer to section 3.7)
Radistion Emission	15.209,15.247(d) ANSI C63.4 Section 8,13 & Annex I	Pass (refer to section 4.7)
Peak Power Output	15.247(b), ANSI C63.4 Section 13 & Annex	Pass (refer to section 5.4)
Band Edge	15.247(d) , ANSI C63.4 Section 13 & Annex I	Pass (refer to section 6.6)
Occupied Bandwidth	15.247(a) , ANSI C63.4 Section 13 & Annex I	Pass (refer to section 7.4)
Channel Separation	15.247(a) , ANSI C63.4 Section 13 & Annex I	Pass (refer to section 8.4)
Dwell Time	15.247(a) , ANSI C63.4 Section 13 & Annex I	Pass (refer to section 9.4)
Hopping Channel	15.247(b) , ANSI C63.4 Section 13 & Annex I	Pass (refer to section 10.4)

2.5 CONFIGURATION OF THE TESTED SYSTEM

The FCC IDs/Types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

Manufacturer SONY	Device	No.	Configuration		
CCD MONITOR (DVI&D-SUB)				: SONY	
M01-062 BSMI ID					
CDVI&D-SUB FCC D			Serial Number	: N/A	
DVI&D-SUB	LCD MONITOR	M04 062	BSMI ID	: R33037	
POWER:AC INPUT :100-240V,50/60HZ	(DVI&D-SUB)	IVIO 1-002	FCC ID	: N/A	
Headset & E01-106 E01-107 E0			DVI&D-SUB Cable	: Non-Shielded, Detachable, 1.8m,cord	
Headset & Earphone			POWER:AC INPUT	:100-240V,50/60HZ	
Headset & Earphone			Adapter Power Cord	d : Non-Shielded, Detachable, 3Pin, 1.8m	
Headset & Earphone E01-106 Serial Number : N/A Data Cable : Non-Shielded, Undetachable, 1.8 m Power Cord : N/A Manufacturer : Microsoft Model Number : X800898-106 BSMI ID : R31264 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.5m Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2548S40842 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable			Manufacturer	: Good Vision	
Earphone Earphone Earphone Earphone Serial Number : N/A Data Cable : Non-Shielded, Undetachable, 1.8 m Power Cord : N/A Manufacturer : Microsoft Model Number : X800898-106 ESMI ID : R31264 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.5m Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2548S40842 Printer Pol1-018 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable	llaadaat 0		Model Number	: LY-MIC02	
Data Cable : Non-Shielded, Undetachable, 1.8 m Power Cord : N/A Manufacturer : Microsoft Model Number : X800898-106 BSMI ID : R31264 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.5m Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2548S40842 Printer P01-018 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable		E01-106	Serial Number	: N/A	
Manufacturer	Earpnone		Data Cable	: Non-Shielded, Undetachable, 1.8 m	
Model Number			Power Cord	: N/A	
M02-326 BSMI ID : R31264 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.5m			Manufacturer	: Microsoft	
FCC ID : N/A Data Cable : Shielded, Undetachable, 1.5m Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2548S40842 Printer P01-018 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable		M02-326	Model Number	: X800898-106	
Data Cable : Shielded, Undetachable, 1.5m Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2548S40842 Printer P01-018 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable	USB Mouse		BSMI ID	: R31264	
Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2548S40842 Printer P01-018 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable			FCC ID	: N/A	
Model Number : 2225C Serial Number : 2548S40842 Printer P01-018 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable			Data Cable	: Shielded, Undetachable, 1.5m	
Printer P01-018 Serial Number : 2548S40842 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable			Manufacturer	: Hewlett Packard	
Printer P01-018 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable			Model Number	: 2225C	
FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable			Serial Number	: 2548S40842	
Data Cable : Shielded, Detachable, 1.2m, Parallel Cable	Printer	P01-018	BSMI ID	: 3892A957	
			FCC ID	: BS46XU2225C	
Power Cord : Non-Shielded, Detachable, 1.8m			Data Cable	: Shielded, Detachable, 1.2m, Parallel Cable	
			Power Cord	: Non-Shielded, Detachable, 1.8m	
Manufacturer : Primary Communication, Inc.	Took Firetrus		Manufacturer	: Primary Communication, Inc.	
Test Fixture Model Number : N/A	i est fixture		Model Number	: N/A	
Manufacturer : KOKA			Manufacturer	: KOKA	
Telephone Model Number : TP-368	i eiepnone		Model Number	: TP-368	

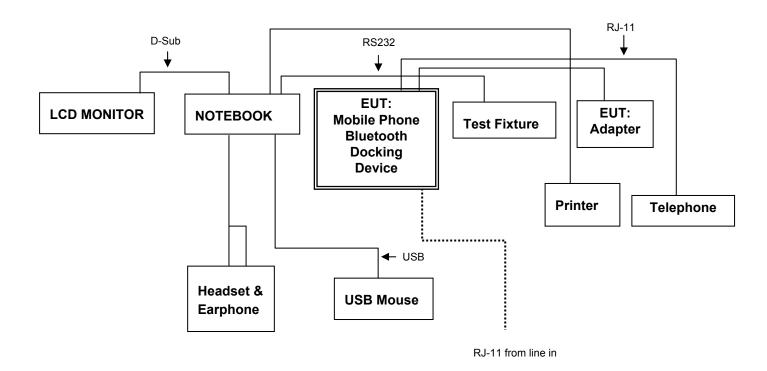
Device	No.	Configuration				
	-	Model Number	: Latitude D600 PPO5L			
		BSMI ID	: R33002			
		FCC ID	E2K24CLNS			
		Serial Number	: 10826163280			
		C.P.U	: Intel Pentium M 1.4G HZ			
		DDR	: PC2100 256MB			
		WIRELESS LAN	: Manufacturer :INTEL			
		CARD	M/N:WM3A2100			
			FCC ID: E2K24CLNS			
		F.D.D	: N/A			
		H.D.D.	: Manufacturer : FUJITSU 30G			
NOTEBOOK			M/N: MHT2030AT			
NOTEBOOK			S/N:NN15T421E09C			
			BSMI ID:D33073			
		DVD-ROM	: Manufacturer :DELL			
			M/N:5W299-A01			
		BATTERY	: Manufacturer :DELL Li-ion			
		MODULE	M/N:6Y270			
			RATING:14.8V 220mAh			
		AC ADAPTOR	: Manufacturer :DELL			
			M/N: PA-1650-05D			
			S/N:CN-05U092-48010-39N-227C			
			INPUT:AC 100-240 V~1.5A 50-60HZ			
			Shielded, Undetachable, 2.5m			

2.6 TEST FACILITY

Ambient conditions in the laboratory:

ITEMS	Requirement
TEMPERATURE (°C)	10-40
HUMIDITY (%RH)	10-90
BAROMETRIC PRESSURE (mbar)	860-1060
FCC SITE DESCRIPTION	Aug. 10, 1995 /Aug. 25, 1998 File on
	FCC Engineering Laboratory
	Federal Communication Commission
	7435 Oakland Mills Road
	Columbia, MD 21046
	Reference 31040/SIT1300F2
NVLAP LAB. CODE	200085-0
	United Stated Department of commerce
	National Institute of Standards and Technology
	National Voluntary Laboratory Accreditation Program
	Accreditation on NVLAP effective through Sep. 30, 2008
	For CISPR 22, FCC Method and AS/NZS CISPR 22
	Measurement.
Taiwan Accreditation	Recognized by the Council of Taiwan Accreditation
Foundation (TAF)	Foundation and confirmed to meet the requirements of
	ISO/IEC 17025.
	Registration No.: 1082
	Registration on TAF effective through Sep. 19, 2009

2.7 TEST SETUP BLOCK DIAGRAM OF CONNECTIONS BETWEEN EUT AND SIMULATORS



2.8 EUT OPERATING CONDITIONS

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

- 1. Setup the EUT and simulators as shown on section 2.7.
- 2. Turn on the power of all equipments.
- 3. Run test softwave and confirm transmit mode of EUT.
- 4. Choose frequency required of standard and start testing.
- 5. Repeat the above steps.

3. CONDUCTION EMISSION DATA

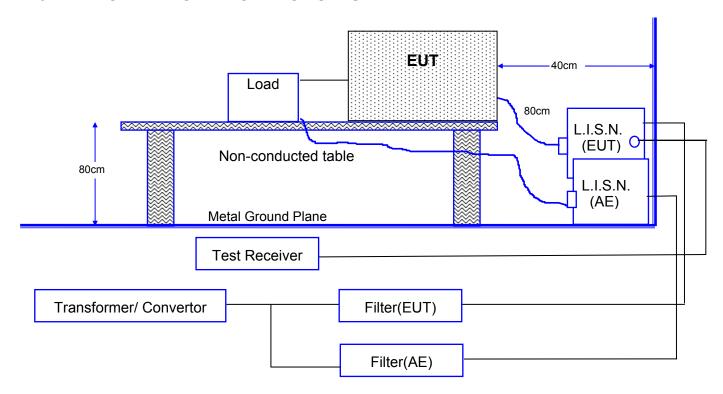
3.1 TEST EQUIPMENTS

The following test equipment are used during the conducted power line tests:

Item	Instrument	Manufacturer	Model	Serial No.	Next Cal. Date
1	Test Receiver	R&S	ESCS30	825022/003	2008.05.25
2	LISN	R&S	ENV216	100006	2008.05.28
3	LISN	ROLF HEINE	NNB-2/16Z	98091	2008.07.22
4	RF CABLE	GesTek	N/A	GTK-E-A152-01	2008.12.13
5	50 Ohm Terminator	GesTek	N/A	GTK-E-A124-01	N/A
6	Shielded Room	GesTek	N/A	B5	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

3.2 BLOCK DIAGRAM OF TEST SETUP



Note: This is a representative setup diagram for Table-top EUT.

For Floor-standing EUT, the table will be removed with all others setup condition remain the same.

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3.3 CONDUCTED EMISSION LIMIT

⋉FCC 15.207

Frequency	Maximum RF Line Voltage dB(μV)				
MHz	QUASI-PEAK	AVERAGE			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5.0	56	46			
5.0 to 30	60	50			

Remarks: In the Above Table, the tighter limit applies at the band edges.

3.4 OPERATING CONDITION OF EUT

Same as section 2.7.

3.5 EUT CONFIGURATION ON MEASUREMENT

The equipments that are listed 3.1 are installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 3.2, was placed on a non-conductive table whose total height equal to 80cm. Powered from one L.I.S.N. which signal output to receiver, and the other peripherals was powered from another L.I.S.N. which signal output was terminated by 50Ω .

3.6 CONDUCTED EMISSION DATA

The measurement range of conducted emission, which is from <u>0.15 MHz to 30 MHz</u>, was investigated. All readings are quasi-peak and average values with a resolution Bandwidth of 9 KHz. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

3.7 CONDUCTED EMISSIONS MEASUREMENT RESULTS

Date of Test	February 27, 2007	Temperature	26 ℃
EUT	Mobile Phone Bluetooth Docking Device	Humidity	60 %
Test Mode	Mode 1-CH 01 (2402MHz)		

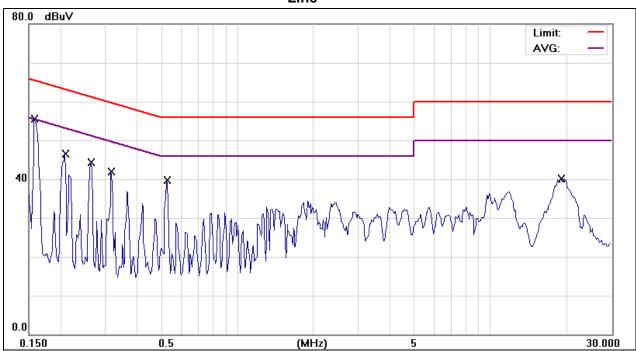
Line

							_
No.	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
	MHz	dΒμV	dB	dΒμV	dΒμV	dB	
1	0.1575	44.43	9.63	54.06	65.59	-11.53	QP
2	0.1575	33.95	9.63	43.58	55.59	-12.01	AVG
3	0.2097	37.87	9.63	47.50	63.22	-15.72	QP
4	0.2097	27.71	9.63	37.34	53.22	-15.88	AVG
5	0.2628	33.40	9.64	43.04	61.34	-18.30	QP
6	0.2628	22.90	9.64	32.54	51.34	-18.80	AVG
7	0.3149	30.27	9.64	39.91	59.84	-19.93	QP
8	0.3149	22.04	9.64	31.68	49.84	-18.16	AVG
9	0.5261	28.92	9.65	38.57	56.00	-17.43	QP
10	★ 0.5261	25.50	9.65	35.15	46.00	-10.85	AVG
11	19.0874	25.32	10.02	35.34	60.00	-24.66	QP
12	19.0874	17.46	10.02	27.48	50.00	-22.52	AVG

Remarks:

- 1. All readings are Quasi-peak and Average values.
- 2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
- 3. Over Limit (Margin Value)=Measurement level-Limit value.
- 4. Factor = L.I.S.N. insertion loss + cable loss
- 5. " \bigstar " means that this data is the worse case measurement level.

Line



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak; "AVG" refers to the limit of Average.

Date of Test	February 27, 2007	Temperature	26 ℃
EUT	Mobile Phone Bluetooth Docking Device	Humidity	60 %
Test Mode	Mode 1-CH 01 (2402MHz)		

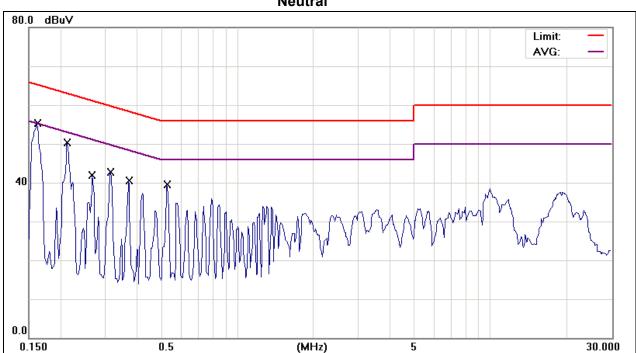
Neutral

No.	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
NO.	MHz	dΒμV	dB	dΒμV	dΒμV	dB	Detector
1	0.1616	43.22	9.63	52.85	65.38	-12.53	QP
2	0.1616	31.76	9.63	41.39	55.38	-13.99	AVG
3	0.2121	38.98	9.63	48.61	63.12	-14.51	QP
4	0.2121	29.89	9.63	39.52	53.12	-13.60	AVG
5	0.2647	34.84	9.64	44.48	61.28	-16.80	QP
6	0.2647	25.99	9.64	35.63	51.28	-15.65	AVG
7	0.3173	31.73	9.64	41.37	59.78	-18.41	QP
8	0.3173	24.17	9.64	33.81	49.78	-15.97	AVG
9	0.3689	29.03	9.64	38.67	58.53	-19.86	QP
10	0.3689	23.56	9.64	33.20	48.53	-15.33	AVG
11	0.5278	28.25	9.65	37.90	56.00	-18.10	QP
12	★ 0.5278	26.35	9.65	36.00	46.00	-10.00	AVG

Remarks:

- 1. All readings are Quasi-peak and Average values.
- 2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
- 3. Over Limit (Margin Value)=Measurement level-Limit value.
- 4. Factor = L.I.S.N. insertion loss + cable loss
- 5. "★" means that this data is the worse case measurement level.

Neutral



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak; "AVG" refers to the limit of Average.

4. RADIATION EMISSION DATA

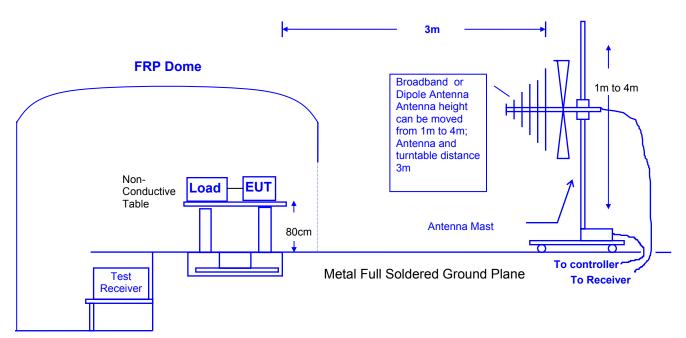
4.1 TEST EQUIPMENT

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

Item	Instrument	Manufacturer	Model	Serial No.	Next Cal. Date
1	Test Receiver	R&S	ESCS30	825022/003	2008.05.25
2	Spectrum Analyzer	HP	8568B	N/A	2009.01.29
3	Spectrum Analyzer	R&S	FSP40	100061	2008.04.08
4	Power Meter	Rohde & Schwarz	NRVS	100666	2008.04.03
5	Peak Power Sensor	Rohde & Schwarz	NRV-Z32	836019-058	2008.04.03
6	Pre-Amplifier	EMV-Technik	PA303	N/A	2008.04.18
7	Pre-Amplifier	HP	8449B	3008A01263	2008.03.21
8	Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-251	2008.03.09
9	HORN ANTENNA	SCHWARZBECK	BBHA 9120	D243	2008.12.24
10	CABLE	GTK	N/A	GTK-E-A344-01	2008.04.17
11	CHAMBER	GTK	N/A	A6	2008.11.30
12	Test Program Software	GesTek	N/A	GTK-E-S001-01	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

4.2 OPEN TEST SITE SETUP DIAGRAM



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4.3 RADIATED EMISSION LIMIT

In any 100KHz 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 100KHz 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)).

⋉FCC 15.209 Limit

Frequency	Distance	Field S	trength
MHz	Meter	μV/M	dBμV/M
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0

Note: The frequencies above 1000MHz, as measured using instrumentation with a peak detector function was corresponding to 20dB above the maximum permitted average limit.

4.4 EUT CONFIGURATION

The equipment which is listed 4.1 are installed on Radiated Emission Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 4.2, was placed on a non-conductive table whose total height equaled 80 cm. This table can be rotated 360 degree. The measurement antenna was mounted to a non-conductive mast capable of moving the antenna vertically. Antenna height was varied from 1 meter to 4 meters and the system under test was rotated from 0 degree through 360 degrees relative to the antenna position and polarization (Horizontal and Vertical). Also the I/O cable position was investigated to find the maximum emission condition.

4.5 OPERATING CONDITION OF EUT

Same as section 2.7.

4.6 RADIATED EMISSION DATA

The measurement range of radiated emission, which is from 30 MHz to 10th Harminics, was investigated. All readings below 1GHz are quasi-peak values with a resolution bandwidth of 120 KHz. Above 1GHz are peak and avg. values with a resolution bandwidth of 1MHz. The initial step in collecting radiated emission data is a spectrum analyzer peak scans of the measurement range for all the test modes and then use test receiver for final measurement. Then the worst modes were reported the following data pages.

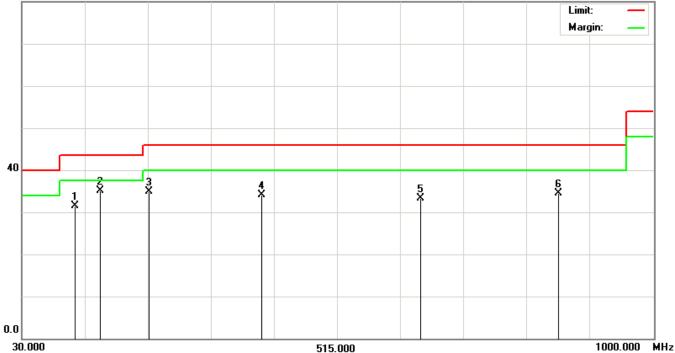
RADIATED EMISSIONS MEASUREMENT RESULTS 4.7

Date of Test	February 27, 2008	Temperature	26 deg/C
ICI IT	Mobile Phone Bluetooth Docking Device	Humidity	60 %RH
Working Cond.	Mode 1-CH 01 (2402MHz)		
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
NO.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	112.4500	50.50	-18.99	31.51	43.50	-11.99	QP
2	★ 151.2500	49.60	-14.51	35.09	43.50	-8.41	QP
3	225.9400	50.80	-15.81	34.99	46.00	-11.01	QP
4	399.5700	44.40	-10.32	34.08	46.00	-11.92	QP
5	644.0100	38.00	-4.68	33.32	46.00	-12.68	QP
6	855.4700	36.00	-1.47	34.53	46.00	-11.47	QP

- 1. All Readings below 1GHz are Quasi-Peak.
- 2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- 3. Over Limit (Margin Value)=Measurement level-Limit value.
- 4. Factor = antenna factor + cable loss amplifier gain.
- 5. " \star " means that this data is the worse case measurement level.
- 6. The emission level of other frequencies are very lower than the limit.



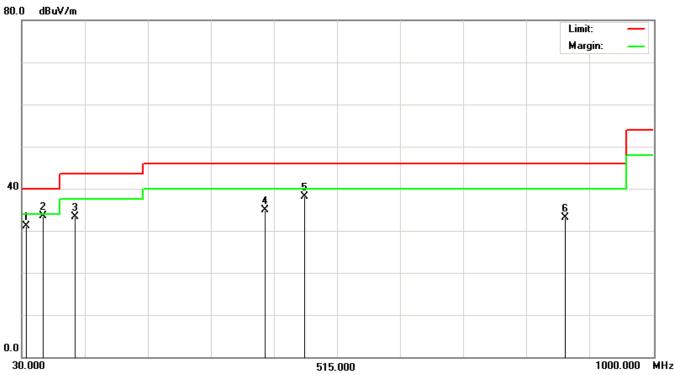


1. The "Limit" in right-up corner in above diagram refers to Quasi-peak; "Margin" refers to the data under 6dB. Remark:

Date of Test	February 27, 2008	Temperature	26 deg/C
ICI IT	Mobile Phone Bluetooth Docking Device	Humidity	60 %RH
Working Cond.	Mode 1-CH 01 (2402MHz)		
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
No.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	36.7900	47.30	-16.15	31.15	40.00	-8.85	QP
2	★ 62.9800	49.80	-16.33	33.47	40.00	-6.53	QP
3	111.4800	52.40	-19.10	33.30	43.50	-10.20	QP
4	404.4200	45.20	-10.20	35.00	46.00	-11.00	QP
5	465.5300	46.80	-8.63	38.17	46.00	-7.83	QP
6	866.1400	34.40	-1.31	33.09	46.00	-12.91	QP

- 1. All Readings below 1GHz are Quasi-Peak.
- 2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
- 3. Over Limit (Margin Value)=Measurement level-Limit value.
- 4. Factor = antenna factor + cable loss amplifier gain.
- 5. " \star " means that this data is the worse case measurement level.
- 6. The emission level of other frequencies are very lower than the limit.

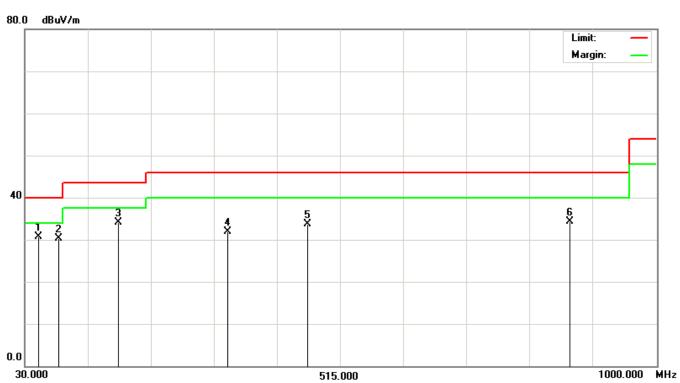


Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak; "Margin" refers to the data under 6dB.

Date of Test	February 27, 2008	Temperature	26 deg/C
CIIT	Mobile Phone Bluetooth Docking Device	Humidity	60 %RH
Working Cond.	Mode 1-CH 40 (2441MHz)		
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
No.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	★ 51.3400	45.60	-14.90	30.70	40.00	-9.30	QP
2	82.3800	50.40	-20.06	30.34	40.00	-9.66	QP
3	174.5300	49.20	-15.02	34.18	43.50	-9.32	QP
4	342.3400	44.00	-12.05	31.95	46.00	-14.05	QP
5	465.5300	42.40	-8.63	33.77	46.00	-12.23	QP
6	868.0800	35.60	-1.29	34.31	46.00	-11.69	QP

- 1. All Readings below 1GHz are Quasi-Peak.
- 2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
- 3. Over Limit (Margin Value)=Measurement level-Limit value.
- 4. Factor = antenna factor + cable loss amplifier gain.
- 5. " \star " means that this data is the worse case measurement level.
- 6. The emission level of other frequencies are very lower than the limit.

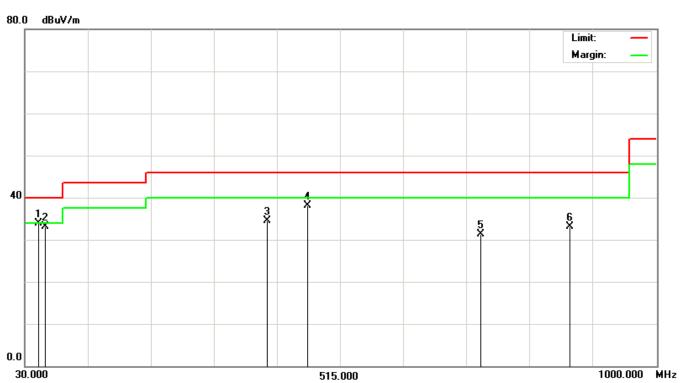


Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak; "Margin" refers to the data under 6dB.

Date of Test	February 27, 2008	Temperature	26 deg/C
ICI IT	Mobile Phone Bluetooth Docking Device	Humidity	60 %RH
Working Cond.	Mode 1-CH 40 (2441MHz)		
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
No.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	★ 51.3400	48.80	-14.90	33.90	40.00	-6.10	QP
2	62.0100	49.20	-16.12	33.08	40.00	-6.92	QP
3	402.4800	44.80	-10.25	34.55	46.00	-11.45	QP
4	465.5300	46.80	-8.63	38.17	46.00	-7.83	QP
5	731.3100	34.80	-3.40	31.40	46.00	-14.60	QP
6	868.0800	34.40	-1.29	33.11	46.00	-12.89	QP

- 1. All Readings below 1GHz are Quasi-Peak.
- 2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
- 3. Over Limit (Margin Value)=Measurement level-Limit value.
- 4. Factor = antenna factor + cable loss amplifier gain.
- 5. " \star " means that this data is the worse case measurement level.
- 6. The emission level of other frequencies are very lower than the limit.

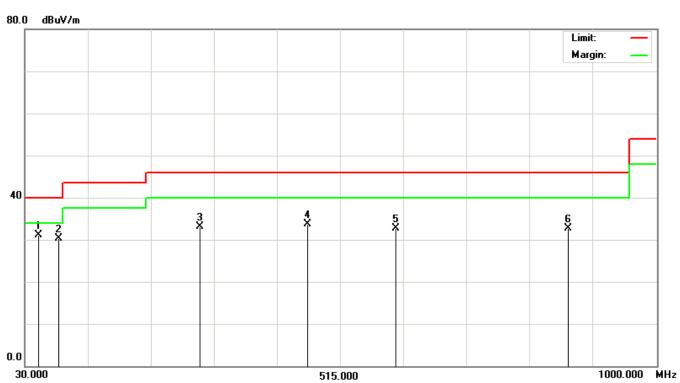


Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak; "Margin" refers to the data under 6dB.

Date of Test	February 27, 2008	Temperature	26 deg/C
CIIT	Mobile Phone Bluetooth Docking Device	Humidity	60 %RH
Working Cond.	Mode 1-CH 79 (2480MHz)		
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
No.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	★ 51.3400	46.00	-14.90	31.10	40.00	-8.90	QP
2	82.3800	50.40	-20.06	30.34	40.00	-9.66	QP
3	299.6600	46.40	-13.34	33.06	46.00	-12.94	QP
4	465.5300	42.40	-8.63	33.77	46.00	-12.23	QP
5	600.3600	38.00	-5.28	32.72	46.00	-13.28	QP
6	866.1400	34.00	-1.31	32.69	46.00	-13.31	QP

- 1. All Readings below 1GHz are Quasi-Peak.
- 2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
- 3. Over Limit (Margin Value)=Measurement level-Limit value.
- 4. Factor = antenna factor + cable loss amplifier gain.
- 5. " \star " means that this data is the worse case measurement level.
- 6. The emission level of other frequencies are very lower than the limit.

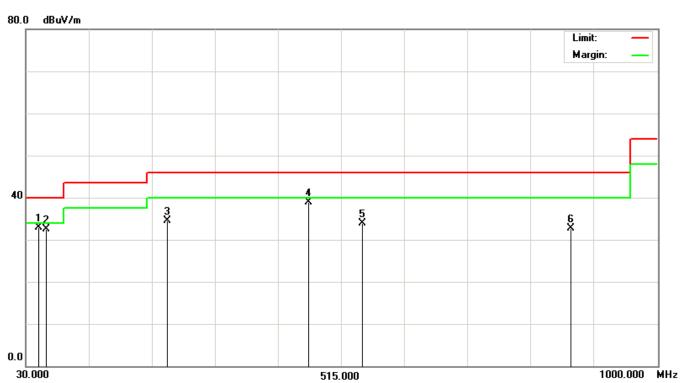


Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak; "Margin" refers to the data under 6dB.

Date of Test	February 27, 2008	Temperature	26 deg/C
ICI IT	Mobile Phone Bluetooth Docking Device	Humidity	60 %RH
Working Cond.	Mode 1-CH 79 (2480MHz)		
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
No.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	★ 50.3700	47.80	-14.81	32.99	40.00	-7.01	QP
2	62.0100	48.70	-16.12	32.58	40.00	-7.42	QP
3	248.2500	50.00	-15.43	34.57	46.00	-11.43	QP
4	465.5300	47.60	-8.63	38.97	46.00	-7.03	QP
5	547.9800	40.40	-6.56	33.84	46.00	-12.16	QP
6	868.0800	34.00	-1.29	32.71	46.00	-13.29	QP

- 1. All Readings below 1GHz are Quasi-Peak.
- 2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
- 3. Over Limit (Margin Value)=Measurement level-Limit value.
- 4. Factor = antenna factor + cable loss amplifier gain.
- 5. " \star " means that this data is the worse case measurement level.
- 6. The emission level of other frequencies are very lower than the limit.



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak; "Margin" refers to the data under 6dB.

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Date of Test	February 20, 2008	Temperature	24.4 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	61 %RH
Working Cond.	Mode 1-CH 01 (2402MHz)		
Antenna distance	3m at Horizontal	Frequency Range	Above 1GHz

No.	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
NO.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4804.0000	57.27	1.46	58.73	74.00	-15.27	peak
2	4804.0000	49.75	1.46	51.21	54.00	-2.79	AVG
3	7233.4000	43.49	9.35	52.84	74.00	-21.16	peak
4	9571.6000	44.32	6.41	50.73	74.00	-23.27	peak
5	11974.0000	38.43	14.99	53.42	74.00	-20.58	peak
6	14409.6000	43.86	9.24	53.10	74.00	-20.90	peak

- 1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- 2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
- 3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ, Span=20MHz.
- 4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- 5. Factor = antenna factor + cable loss amplifier gain.
- 6. Over Limit (Margin Value)=Measurement level-Limit value.
- 7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.
- 8. The emission level of other frequencies are very lower than the limit.

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Date of Test	February 20, 2008	Temperature	24.4 deg/C
	Mobile Phone Bluetooth Docking Device	Humidity	61 %RH
Working Cond.	Mode 1-CH 01 (2402MHz)		
Antenna distance	3m at Vertical	Frequency Range	Above 1GHz

No.	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
NO.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4803.6000	59.01	1.45	60.46	74.00	-13.54	peak
2	4804.0000	48.69	1.45	50.14	54.00	-3.86	AVG
3	7210.4000	43.68	8.72	52.40	74.00	-21.60	peak
4	9560.4000	42.84	10.33	53.17	74.00	-20.83	peak
5	12032.2000	36.04	17.04	53.08	74.00	-20.92	peak
6	14377.0000	45.60	8.23	53.83	74.00	-20.17	peak

- 1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
- Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ, Span=20MHz.
- 4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- 5. Factor = antenna factor + cable loss amplifier gain.
- 6. Over Limit (Margin Value)=Measurement level-Limit value.
- 7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.
- 8. The emission level of other frequencies are very lower than the limit.

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Date of Test	February 20, 2008	Temperature	24.4 deg/C
	Mobile Phone Bluetooth Docking Device	Humidity	61 %RH
Working Cond.	Mode 1-CH 40 (2441MHz)		
Antenna distance	3m at Horizontal	Frequency Range	Above 1GHz

No.	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
NO.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4881.6000	57.63	1.42	59.05	74.00	-14.95	peak
2	4882.0000	50.49	1.42	51.91	54.00	-2.09	AVG
3	7355.6000	43.56	9.12	52.68	74.00	-21.32	peak
4	9719.2000	44.53	6.99	51.52	74.00	-22.48	peak
5	12220.0000	42.77	11.05	53.82	74.00	-20.18	peak
6	14680.6000	44.42	9.18	53.60	74.00	-20.40	peak

- 1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
- Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ, Span=20MHz.
- 4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- 5. Factor = antenna factor + cable loss amplifier gain.
- 6. Over Limit (Margin Value)=Measurement level-Limit value.
- 7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.
- 8. The emission level of other frequencies are very lower than the limit.

GESTEK _{Lab}	Report No: 0802014R-01
NO 2. Day Tay Taya Vallay Chia Day Tayan Lin Kay Hainna Tainai Caynty Taiyan D.O.C.	Tal-000 0 0000 5004 Familian 0 0000 5005

NO 3, Pau-Tou-Tsuo Valley, Chia-Pau Tsuen, Lin Kou Hsiang, Taipei County, Taiwan, R.O.C. Tel:886-2-2603-5321 Fax:886-2-2603-5325

Date of Test	February 20, 2008	Temperature	24.4 deg/C
	Mobile Phone Bluetooth Docking Device Humidity		61 %RH
Working Cond.	Mode 1-CH 40 (2441MHz)		
Antenna distance	3m at Vertical	Frequency Range	Above 1GHz

No	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
No.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4882.0000	49.47	2.07	51.54	54.00	-2.46	AVG
2	4882.2000	59.61	2.07	61.68	74.00	-12.32	peak
3	7362.2000	44.06	8.50	52.56	74.00	-21.44	peak
4	9715.2000	43.86	9.87	53.73	74.00	-20.27	peak
5	12246.8000	40.89	12.98	53.87	74.00	-20.13	peak
6	14622.2000	45.87	7.24	53.11	74.00	-20.89	peak

- 1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- 2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
- 3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ, Span=20MHz.
- 4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- 5. Factor = antenna factor + cable loss amplifier gain.
- 6. Over Limit (Margin Value)=Measurement level-Limit value.
- 7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.
- 8. The emission level of other frequencies are very lower than the limit.

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Date of Test	February 20, 2008	Temperature	24.4 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	61 %RH
Working Cond.	Mode 1-CH 79 (2480MHz)		
Antenna distance	3m at Horizontal	Frequency Range	Above 1GHz

No.	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
NO.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4959.6000	58.45	1.34	59.79	74.00	-14.21	peak
2	4960.0000	50.84	1.34	52.18	54.00	-1.82	AVG
3	7481.8000	43.68	8.62	52.30	74.00	-21.70	peak
4	9962.6000	44.63	3.96	48.59	74.00	-25.41	peak
5	12405.4000	43.67	7.13	50.80	74.00	-23.20	peak
6	14904.6000	45.89	7.90	53.79	74.00	-20.21	peak

- 1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- 2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
- 3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ, Span=20MHz.
- 4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- 5. Factor = antenna factor + cable loss amplifier gain.
- 6. Over Limit (Margin Value)=Measurement level-Limit value.
- 7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.
- 8. The emission level of other frequencies are very lower than the limit.

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Date of Test	February 20, 2008	Temperature	24.4 deg/C
	Mobile Phone Bluetooth Docking Device Humidity		61 %RH
Working Cond.	Mode 1-CH 79 (2480MHz)		
Antenna distance	3m at Vertical	Frequency Range	Above 1GHz

No	Frequency	Reading Level	Factor	Measurement	Limit	Over Limit	Detector
No.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4960.0000	60.84	2.64	63.48	74.00	-10.52	peak
2	4960.0000	50.41	2.64	53.05	54.00	-0.95	AVG
3	7468.2000	43.80	8.31	52.11	74.00	-21.89	peak
4	9883.2000	43.76	9.78	53.54	74.00	-20.46	peak
5	12374.8000	43.41	10.45	53.86	74.00	-20.14	peak
6	14863.0000	45.76	6.74	52.50	74.00	-21.50	peak

- 1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
- Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ, Span=20MHz.
- 4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- 5. Factor = antenna factor + cable loss amplifier gain.
- 6. Over Limit (Margin Value)=Measurement level-Limit value.
- 7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.
- 8. The emission level of other frequencies are very lower than the limit.

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5. PEAK POWER OUTPUT

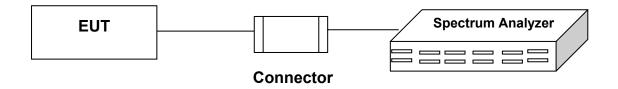
5.1 TEST EQUIPMENT

The following test equipments are used during the Conduct tests:

Item	Instrument	Manufacturer	Model	Serial No.	Next Cal. Date
1	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	2008.04.08
2	Spectrum Analyzer	HP	E4407B	39240339	2008.08.06

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

5.2 BLOCK DIAGRAM OF TEST SETUP



5.3 PEAK POWER OUTPUT LIMIT

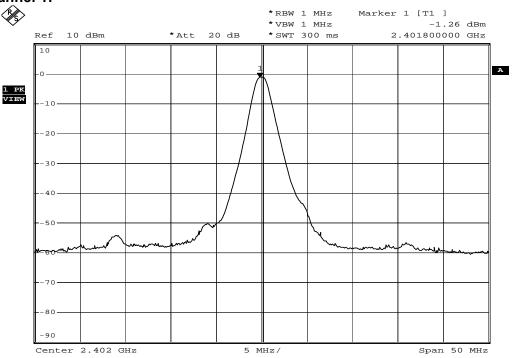
The maximum peak power shall be less 1 Watt.

5.4 TEST RESULT

Date of Test	March 07, 2008	Temperature	22.5 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	47 %RH
Test Mode	Mode 1	Data Rate	DH5

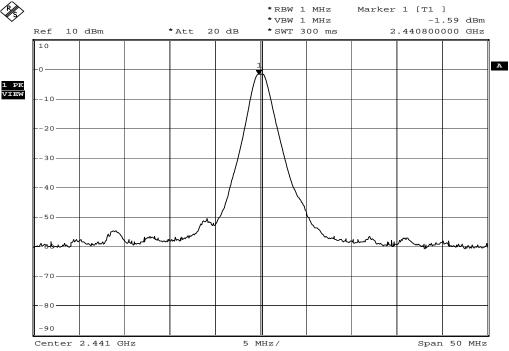
Channel No.	Frequency (MHz)	Measurement (dBm) Required Limit		Result
01	2402	-1.26	1W(30dBm)	Pass
40	2441	-1.59	1W(30dBm)	Pass
79	2480	-1.42	1W(30dBm)	Pass

Figure Channel 1:



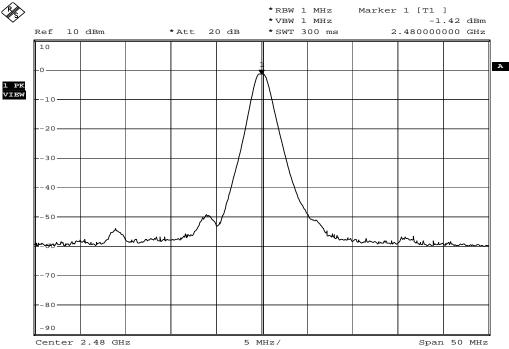
Date: 7.MAR.2008 09:42:48

Figure Channel 40:



Date: 7.MAR.2008 09:45:04

Figure Channel 79:



Date: 7.MAR.2008 09:49:35

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6. BAND EDGE

6.1 TEST EQUIPMENT

Item	Instrument	Manufacturer	Model	Serial No.	Next Cal. Date
1	Test Receiver	R&S	ESCS30	825022/003	2008.05.25
2	Spectrum Analyzer	R&S	FSP40	100061	2008.04.08
3	Power Meter	Rohde & Schwarz	NRVS	100666	2008.04.03
4	Peak Power Sensor	Rohde & Schwarz	NRV-Z32	836019-058	2008.04.03
5	Pre-Amplifier	EMV-Technik	PA303	N/A	2008.04.18
6	Pre-Amplifier	HP	8449B	3008A01263	2008.03.21
7	Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-251	2008.03.09
8	HORN ANTENNA	SCHWARZBECK	BBHA 9120	D243	2008.12.24
9	CABLE	GTK	N/A	GTK-E-A344-01	2008.04.17
10	CHAMBER	GTK	N/A	A6	2008.11.30
11	Test Program Software	GesTek	N/A	GTK-E-S001-01	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

6.2 BLOCK DIAGRAM OF TEST SETUP

RF Radiated Measurement:

Refer to Section 4.2

RF Couductive Measurement:

Refer to Section 5.2

6.3 BAND EDGE LIMIT

In any 100KHz 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 100KHz 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)).

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6.4 EUT CONFIGURATION

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 C63.4:2000 on radiated measurement.

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

6.5 OPERATING CONDITION OF EUT

Same as section 2.7.

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6.6 **TEST RELULT**

Date of Test	March 07, 2008	Temperature	18.5 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	58 %RH
Working Cond.	Mode 1-CH 01 (2402MHz)		
Antenna distance	3m at Horizontal	Test Band	Lower

Radiation Emission of Fundamental

Peak

Frequency	Reading Level	Correction Factor	Emission Level	
[MHz]	[dB(uV)]	[dB/m]	[dB(uV/m)]	
2401.82	65.92	31.49	97.41	

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]	
2402.0	53.15	31.49	84.64	

Remark:

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation)
- Correction Factor = Antenna Factor + Cable Loss Amplifier Factor

TEST Result

The band edge emission plot on next page are Peak and Average. The polt for peak is appear (53.78)dB delta between carry power and maximum emission in restrict band 2370.2 MHz. The plot for average is appear (47.85)dB delta between carry power and maximum emission in restrict band (2306.0)MHz. The above tables are list of fundamental emission test result.

Therefore, peak field strength of $\underline{2370.2}$ MHz is $\underline{97.41}$ dBuV/m – $\underline{53.78}$ dB = $\underline{43.63}$ dBuV/m which is under 74dBuV/m.

Average field strength of 2306.0 MHz is 84.64 dBuV/m – 47.85 dB = 36.79 dBuV/m which is under 54dBuV/m

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Date of Test	March 07, 2008	Temperature	18.5 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	58 %RH
Working Cond.	Mode 1-CH 01 (2402MHz)		
Antenna distance	3m at Vertical	Test Band	Lower

Radiation Emission of Fundamental

Peak

Frequency	Reading Level	Correction Factor	Emission Level
[MHz]	[dB(uV)]	[dB/m]	[dB(uV/m)]
2402.12	57.60	24.59	82.19

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2402.0	41.65	24.60	66.25

Remark:

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.

 Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.

 Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ

 Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- 5. Correction Factor= Antenna Factor + Cable Loss Amplifier Factor

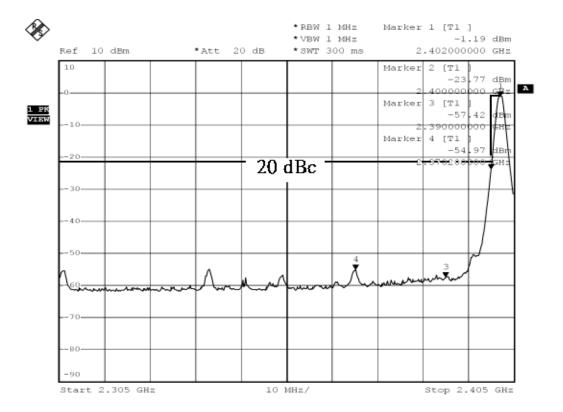
TEST Result

The band edge emission plot on next page are Peak and Average. The polt for peak is appear (53.78)dB delta between carry power and maximum emission in restrict band 2370.2 MHz. The plot for average is appear (47.85)dB delta between carry power and maximum emission in restrict band (2306.0)MHz.

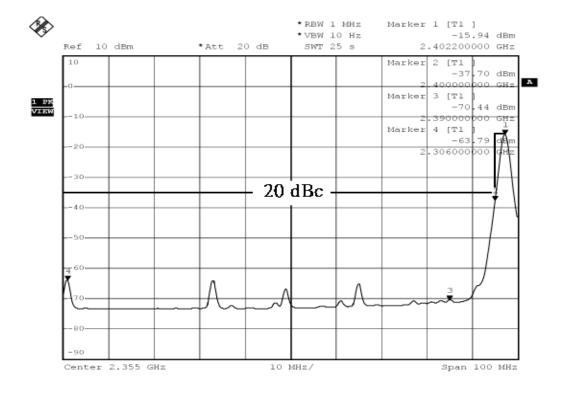
The above tables are list of fundamental emission test result.

Therefore, peak field strength of $\underline{2370.2}$ MHz is $\underline{82.19}$ dBuV/m – $\underline{53.78}$ dB = $\underline{28.41}$ dBuV/m which is under 74dBuV/m.

Average field strength of $\underline{2306.0}$ MHz is $\underline{66.25}$ dBuV/m $-\underline{47.85}$ dB = $\underline{18.40}$ dBuV/m which is under 54dBuV/m



Date: 7.MAR.2008 16:01:33



Date: 7.MAR.2008 16:06:30

Date of Test	March 07, 2008	Temperature	18.5 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	58 %RH
Working Cond.	Mode 1-CH 79 (2480MHz)		
Antenna distance	3m at Horizontal	Test Band	Higher

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2479.82	64.67	31.32	95.99

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2480.0	52.78	31.32	84.10

Remark:

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.

- Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
 Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
 Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation)
- 5. Correction Factor = Antenna Factor + Cable Loss Amplifier Factor

TEST Result

The band edge emission plot on next page are Peak and Average. The polt for peak is appear (38.55)dB delta between carry power and maximum emission in restrict band 2483.5 MHz. The plot for average is appear (34.19)dB delta between carry power and maximum emission in restrict band (2483.5)MHz. The above tables are list of fundamental emission test result.

Therefore, peak field strength of $\underline{2483.5}$ MHz is $\underline{95.99}$ dBuV/m – $\underline{38.55}$ dB = $\underline{57.44}$ dBuV/m which is under 74dBuV/m.

Average field strength of 2483.5 MHz is 84.10 dBuV/m – 34.19 dB = 49.91 dBuV/m which is under 54dBuV/m

Date of Test	March 07, 2008	Temperature	18.5 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	58 %RH
Working Cond. Mode 1-CH 79 (2480MHz)			
Antenna distance	3m at Vertical	Test Band	Higher

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2479.88	56.46	23.34	79.80

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2480.06	42.93	23.33	69.48

Remark:

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.

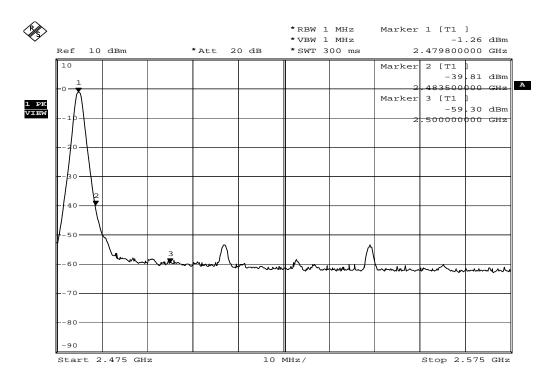
- Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
 Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
 Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation)
- 5. Correction Factor = Antenna Factor + Cable Loss Amplifier Factor

TEST Result

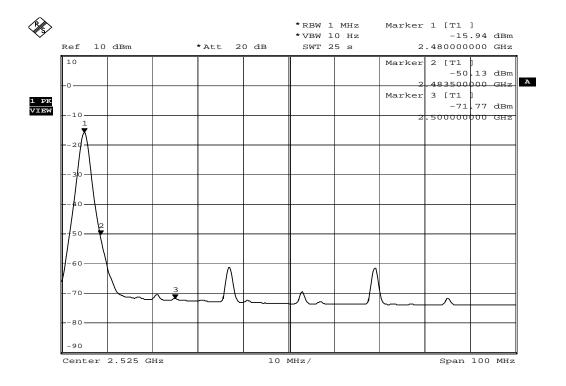
The band edge emission plot on next page are Peak and Average. The polt for peak is appear (38.55)dB delta between carry power and maximum emission in restrict band 2483.5 MHz. The plot for average is appear (34.19)dB delta between carry power and maximum emission in restrict band (2483.5)MHz. The above tables are list of fundamental emission test result.

Therefore, peak field strength of $\underline{2483.5}$ MHz is $\underline{79.80}$ dBuV/m $-\underline{38.55}$ dB = $\underline{41.25}$ dBuV/m which is under 74dBuV/m.

Average field strength of $\underline{2483.5}$ MHz is $\underline{69.48}$ dBuV/m $-\underline{34.19}$ dB = $\underline{35.29}$ dBuV/m which is under 54dBuV/m



Date: 7.MAR.2008 11:37:51



Date: 7.MAR.2008 12:50:37

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7. OCCUPIED BANDWIDTH

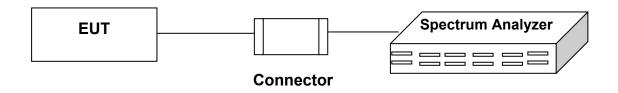
7.1 TEST EQUIPMENT

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

Item	Instrument	Manufacturer	Model	Serial No.	Next Cal. Date
1	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	2008.04.08
2	Spectrum Analyzer	HP	E4407B	39240339	2008.08.06

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

7.2 BLOCK DIAGRAM OF TEST SETUP



7.3 LIMIT

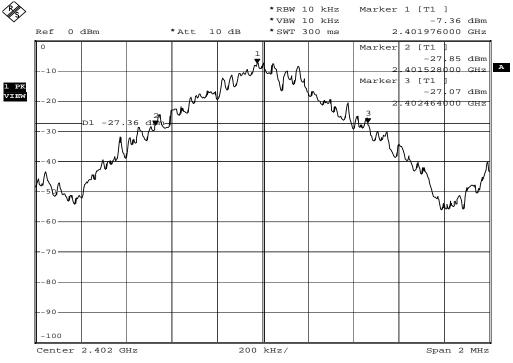
The maximum 20 dB bandwidth shall be muasurement.

TEST RESULT 7.4

Date of Test	March 07, 2008	Temperature	23.5 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	42 %RH
Working Cond.	Mode 1		

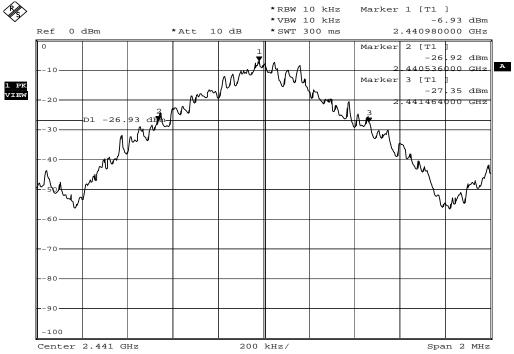
Channel No.	Frequency	20dB Bandwidth
	(MHz)	(MHz)
01	2402	0.936
40	2441	0.928
79	2480	0.932

Figure Channel 1:



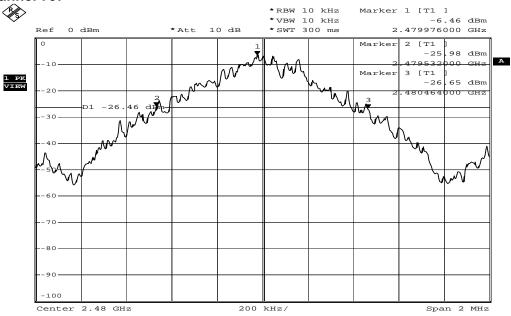
Date: 7.MAR.2008 15:35:06

Figure Channel 40:



Date: 7.MAR.2008 15:38:07

Figure Channel 79:



Date: 7.MAR.2008 15:40:45

8. CHANNEL SEPARATION

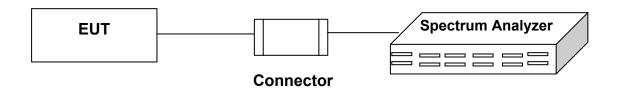
8.1 TEST EQUIPMENT

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

Item	Instrument	Manufacturer	Model	Serial No.	Next Cal. Date
1	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	2008.04.08
2	Spectrum Analyzer	HP	E4407B	39240339	2008.08.06

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

8.2 BLOCK DIAGRAM OF TEST SETUP



8.3 LIMIT

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25kHz or the 20dB bandwidth of hopping channel, whichever is grester.

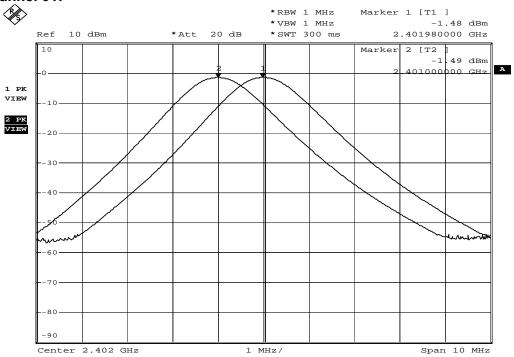
8.4

TEST RESULT

Date of Test	March 06, 2008	Temperature	23.5 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	42 %RH
Working Cond.	Mode 1		

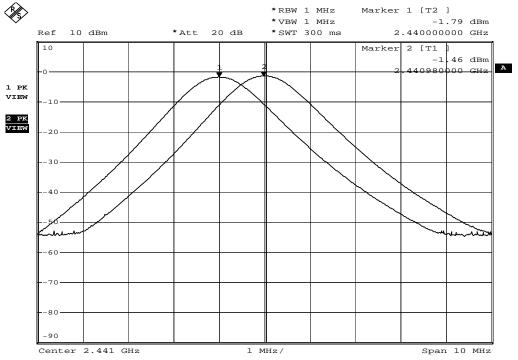
Test Channel No.	Channel Separated (kHz)	Limit (kHz)	Limit of 20dB Bandwidth (kHz)	Result
01	980	>25	>936	Pass
40	980	>25	>928	Pass
79	980	>25	>936	Pass

Figure Channel 01:



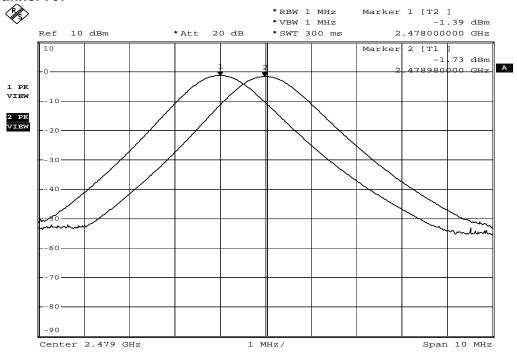
Date: 6.MAR.2008 17:09:19

Figure Channel 40:



Date: 6.MAR.2008 17:13:37

Figure Channel 79:



Date: 6.MAR.2008 17:19:54

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9. DWELL TIME

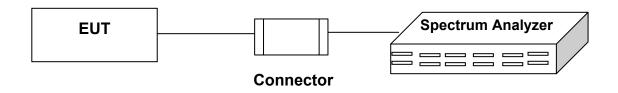
9.1 TEST EQUIPMENT

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

Item	Instrument	Manufacturer	Model	Serial No.	Next Cal. Date
1	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	2008.04.08
2	Spectrum Analyzer	HP	E4407B	39240339	2008.08.06

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

9.2 BLOCK DIAGRAM OF TEST SETUP



9.3 LIMIT

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 number of hopping channels employed.

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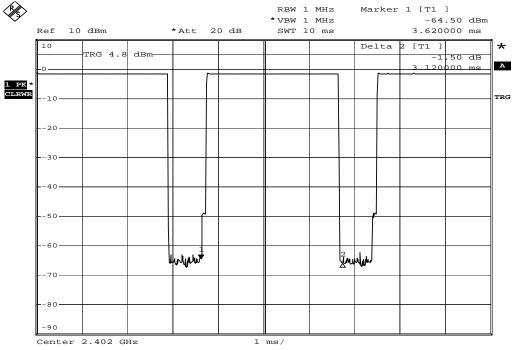
9.4 TEST RESULT

Date of Test	February 29, 2008	Temperature	18.5 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	58 %RH
Working Cond.	Mode 1-CH 01 (2402MHz)		

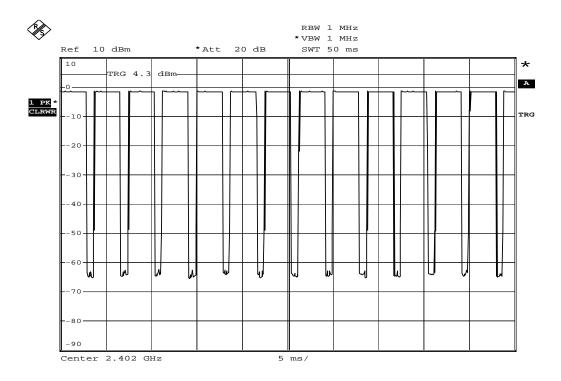
Measurement Level (sec)	Required Limit (sec)	Result
Period = 0.4 (sec) * 79 (number of channel)		
= 31.6 (sec)		
Hop rate = 14 / 50 (ms) = 0.28 / sec		
Time slot length $=$ 3120 (μ s) $=$ 0.0312 (sec)	< 0.4	Pass
W Dwell Time = 0.0312 * (0.28 / 79) * 31.6		
=0.0034 (sec)		

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

Figure Channel 01:



Date: 6.MAR.2008 17:32:24



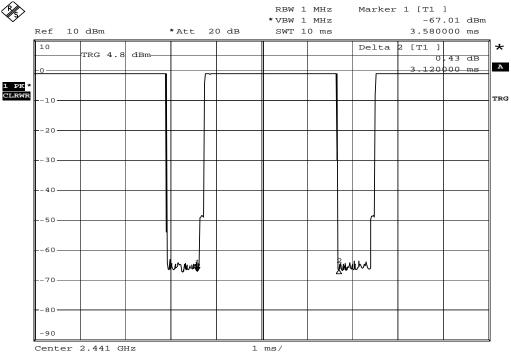
Date: 6.MAR.2008 17:33:40

Date of Test	February 29, 2008	Temperature	18.5 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	58 %RH
Working Cond.	Mode 1-CH 40 (2441MHz)		

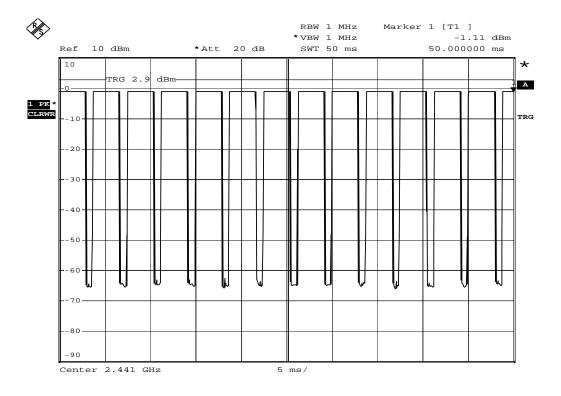
Measurement Level (sec)	Required Limit (sec)	Result
Period = 0.4 (sec) * 79 (number of channel)		
= 31.6 (sec)		
Hop rate = 14 / 50 (ms) = 0.28 / sec		
Time slot length $=$ 3120 (μ s) $=$ 0.0312 (sec)	< 0.4	Pass
※ Dwell Time = 0.0312 * (0.28 / 79) * 31.6		
=0.0034 (sec)		

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

Figure Channel 40:



Date: 11.MAR.2008 17:02:05



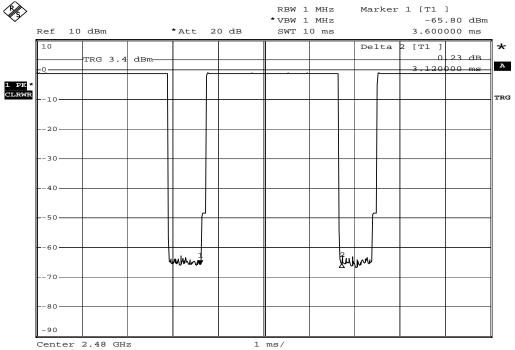
Date: 11.MAR.2008 16:59:53

Date of Test	February 29, 2008	Temperature	18.5 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	58 %RH
Working Cond.	Mode 1-CH 79 (2480MHz)		

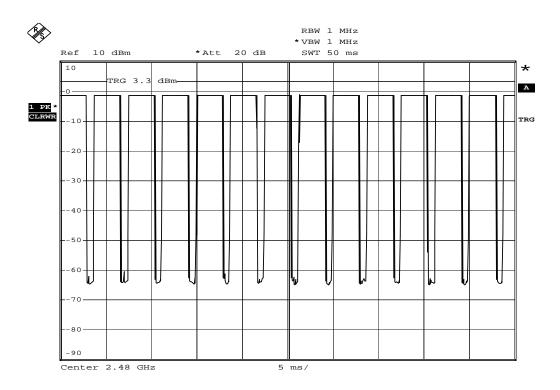
Measurement Level (sec)	Required Limit (sec)	Result
Period = 0.4 (sec) * 79 (number of channel)		
= 31.6 (sec)		
Hop rate = 14 / 50 (ms) = 0.28 / sec		
Time slot length $=$ 3120 (μ s) $=$ 0.0312 (sec)	< 0.4	Pass
W Dwell Time = 0.0312 * (0.28 / 79) * 31.6		
=0.0034 (sec)		

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

Figure Channel 79:



Date: 11.MAR.2008 17:05:17



Date: 11.MAR.2008 17:05:52

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10. HOPPING CHANNEL

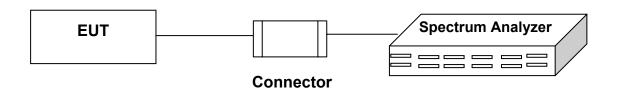
10.1 TEST EQUIPMENT

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

I	Item	Instrument	Manufacturer	Model	Serial No.	Next Cal. Date
Ī	1	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	2008.04.08
Ī	2	Spectrum Analyzer	HP	E4407B	39240339	2008.08.06

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

10.2 BLOCK DIAGRAM OF TEST SETUP



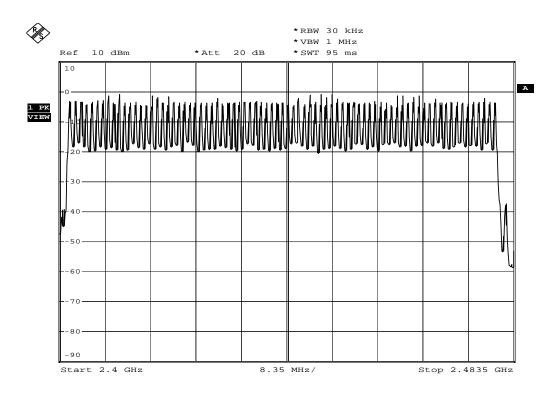
10.3 LIMIT

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

10.4 TEST RELULT

Date of Test	February 29, 2008	Temperature	18.5 deg/C
EUT	Mobile Phone Bluetooth Docking Device	Humidity	58 %RH
Working Cond.	Mode 1		

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



Date: 29.FEB.2008 14:12:32

11. PHOTOGRAPHS FOR TEST

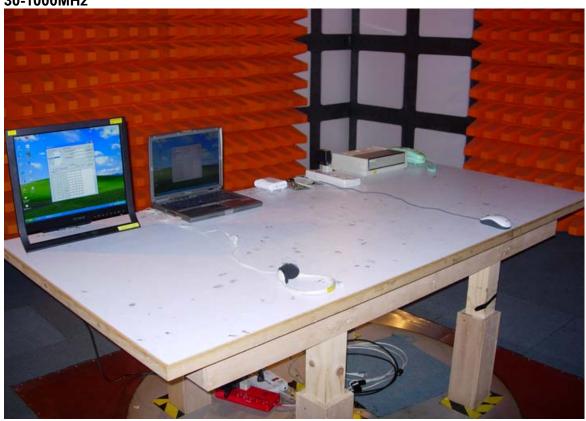
11.1 TEST PHOTOGRAPHS FOR CONDUCTION





11.2 TEST PHOTOGRAPHS FOR RADIATION

30-1000MHz





Above 1GHz





12. PHOTOGRAPHS FOR PRODUCT

Mobile Phone Bluetooth Docking Device (EUT)
 ACCESSARY







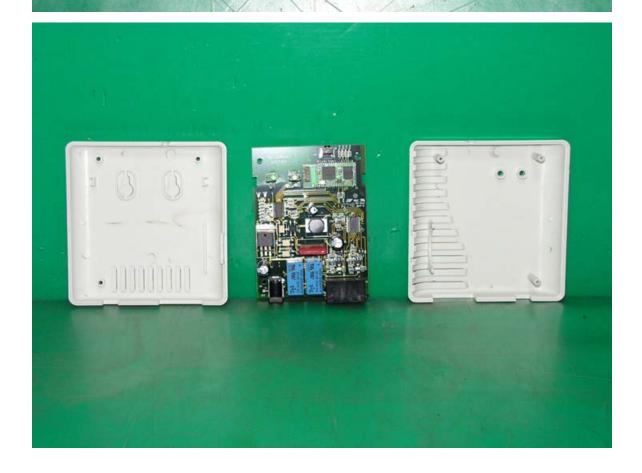
3.





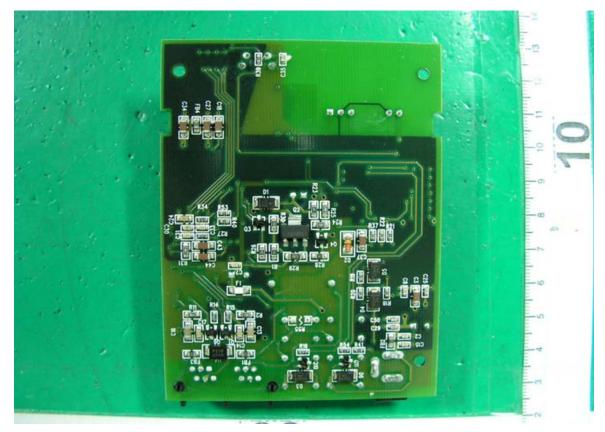
5. Label Here





7. Main Board from View 8. Main Board rear View





From View of Adapter
 Back View of Adapter





11. 12. Adapter main board front view

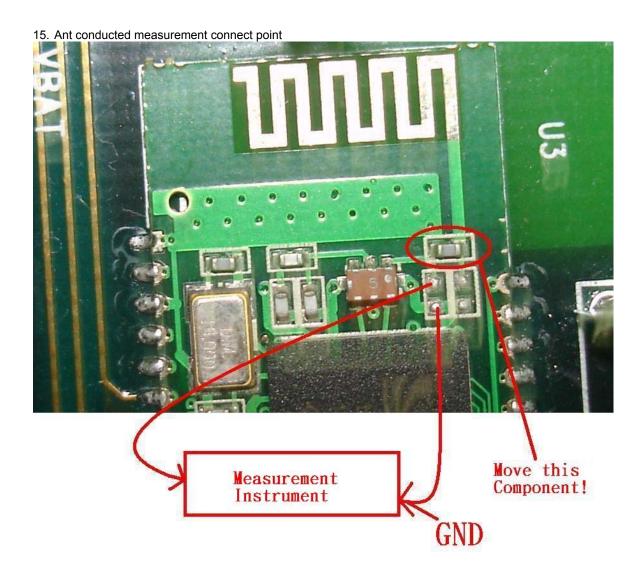




- 13. Adapter main board rear view14. Label Here







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13. EMI REDUCTION METHOD DURING COMPLIANCE TESTING

No modification was made during testing.

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Appendix A Circuit (Block) Diagram

(Shall be added by Applicant)

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Appendix B User Manual

(Shall be added by Applicant)