

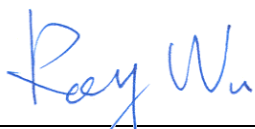
Variant FCC RF Test Report

APPLICANT : Hewlett-Packard Company
EQUIPMENT : SmartBook
BRAND NAME : HP
MODEL NAME : HSTNH-F23C
MARKETING NAME : Compaq AirLife 100
FCC ID : B94HHF23C
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : Digital Spread Spectrum (DSS)

This is a variant report which is only valid combined with the original report. The product was received on Mar. 03, 2010 and completely tested on Mar. 07, 2010. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:



Roy Wu / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR9N1201-03B	Rev. 01	This is a variant report which can be referred to appendix C for change notes. All the test cases were performed on original report which can be referred to Sporton Report Number FR9N1201-01B as appendix D. Based on the original report; only the worst mode of radiated emission was verified for HW and SW change.	Mar. 17, 2010

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(d)	A8.5	Transmitter Radiated Emission	15.209(a) & 15.247(d)	Pass	Under limit 5.77 dB at 2483.50 MHz
3.3	15.203 & 15.247(b)	A8.4	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Hewlett-Packard Company

10955 Tantau Ave., CupertinoCA, 95014-0770, USA

1.2 Manufacturer

FOXCONN Technology Group

4F., G5, No.2, 2nd Donghuan Road, 10th Yousong Industrial District, Longhua, Baoan, Shenzhen City, Guangdong Province, China 518109

1.3 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	SmartBook
Brand Name	HP
Model Name	HSTNH-F23C
Marketing Name	Compaq AirLife 100
FCC ID	B94HHF23C
Tx/Rx Frequency Range	2400 MHz ~ 2483.5 MHz
Number of Channels	79
Carrier Frequency of Each Channel	2402+n*1 MHz; n=0~78
Channel Spacing	1 MHz
Antenna Type	PIFA Antenna with gain -2.3 dBi
HW Version	PVT1.0
SW Version	001.156
Type of Modulation	Bluetooth (1Mbps) : GFSK Bluetooth EDR (2Mbps) : $\pi/4$ -DQPSK Bluetooth EDR (3Mbps) : 8-DPSK
EUT Stage	Production Unit

Remark:

1. For other wireless features of this EUT, test report will be issued separately.
2. This test report recorded only product characteristics and test results of Digital Spread Spectrum (DSS).
3. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-3273456 / FAX: +886-3-3284978	
Test Site No.	Sporton Site No.	FCC/IC Registration No.
	03CH07-HY	TW1022/4086B-1

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC Public Notice DA 00-705
- ♦ ANSI C63.4-2003
- ♦ IC RSS-210 Issue 7

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B (DoC), recorded in a separate test report.

1.6 Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CBT32	N/A	N/A	Unshielded, 1.8 m

2 Test Configuration of Equipment Under Test

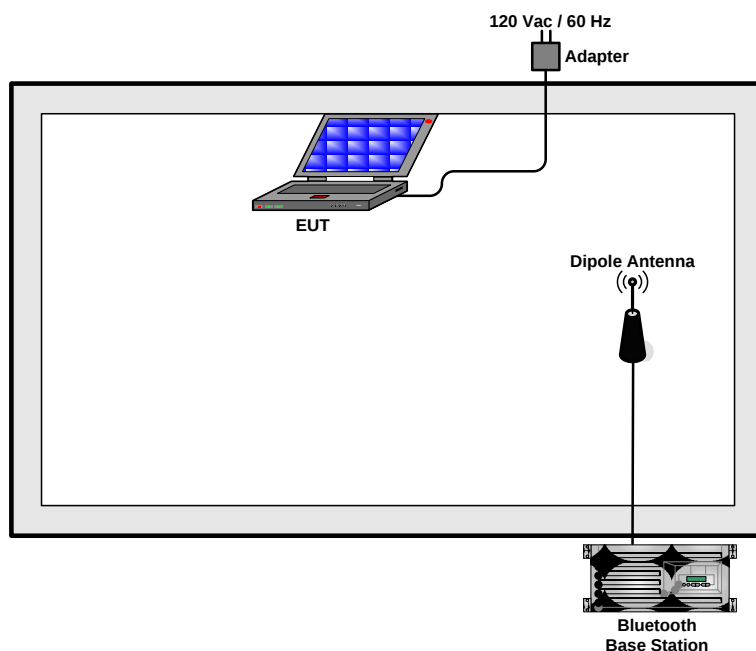
2.1 Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

Test Cases	
Test Item	Data Rate / Modulation
	Bluetooth EDR 3Mbps 8-DPSK
Radiated TCs	Mode 1: CH78_2480 MHz

2.2 Connection Diagram of Test System



2.3 RF Utility

For Bluetooth function, the RF utility was installed in EUT which was programmed in order to make the EUT into the engineering modes to contact with Bluetooth base station for transmitting and receiving signals continuously.

3 Test Result

3.1 Band Edges Measurement

3.1.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

3.1.2 Measuring Instruments

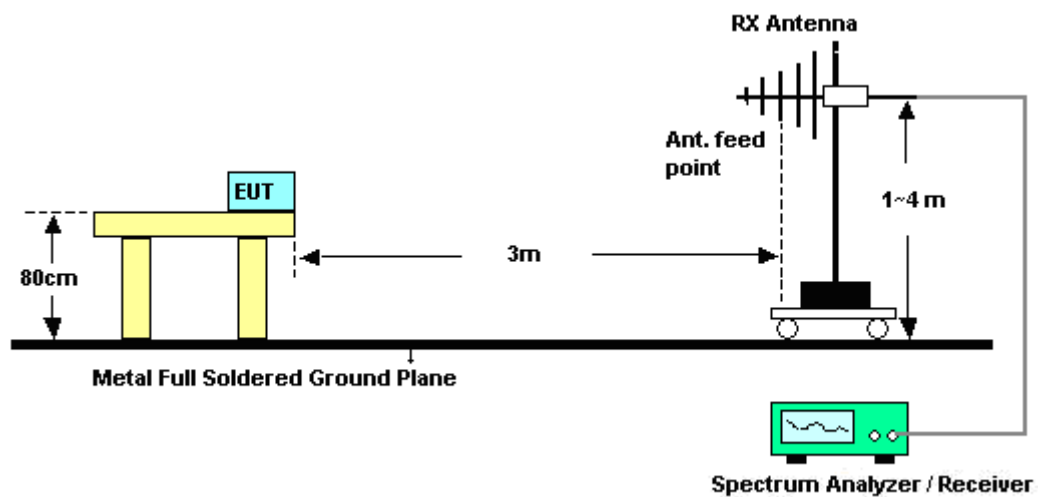
See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The testing follows the guidelines in ANSI C63.4-2003 and FCC Public Notice DA 00-705 Measurement Guidelines.
2. RF antenna conducted test: Set RBW = 300kHz, Video bandwidth (VBW) $\geq$ RBW. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 300k Hz RBW. Note: If the device complies with the use of power option 2 the attenuation under this paragraph shall be 30 dB instead of 20 dB.
3. Radiated emission test: Applies to band edge emissions that fall in the restricted bands listed in FCC Section 15.205. The maximum permitted average field strength is listed in FCC Section 15.209. A pre-amp is necessary for this measurement. For measurements above 1 GHz, set RBW = 1MHz, VBW = 1MHz, Sweep: Auto for Peak; set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto for Average. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation. See FCC Section 15.35(b) and (c).
4. In case the emission is fail due to the used RBW / VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

3.1.4 Test Setup

<Radiated Band Edges>



3.1.5 Test Result of Radiated Band Edges

Test Mode :	Mode 1	Temperature :	25~26°C
Test Channel :	78	Relative Humidity :	48~51%
		Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.5	68.23	-5.77	74	64.77	32.27	5.38	34.19	103	308	Peak
2483.5	25.87	-28.13	54	22.41	32.27	5.38	34.19	103	308	Average

Summary results of marker-delta method:

Test mode	Maximum field strength of the fundamental emission (dBμV/m)	Delta Result (dB)	Average Result (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
Single Carrier Mode	84.9	59.87	25.03	54	-28.97	Pass
Hopping Mode	84.9	59.03	25.87	54	-28.13	Pass

Note : Average result = Maximum field strength – Delta result

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.5	62.97	-11.03	74	59.51	32.27	5.38	34.19	114	288	Peak
2483.5	22.79	-31.21	54	19.33	32.27	5.38	34.19	114	288	Average

Summary results of marker-delta method:

Test mode	Maximum field strength of the fundamental emission (dBμV/m)	Delta Result (dB)	Average Result (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
Single Carrier Mode	81.43	59.88	21.55	54	-32.45	Pass
Hopping Mode	81.43	58.64	22.79	54	-31.21	Pass

Note : Average result = Maximum field strength – Delta result

Test Mode :	Mode 1	Temperature :	25~26°C
Test Channel :	78	Relative Humidity :	48~51%
Test Engineer :	Cona Huang	Polarization :	Horizontal

Level (dBuV/m)

117

59

0

2476.5

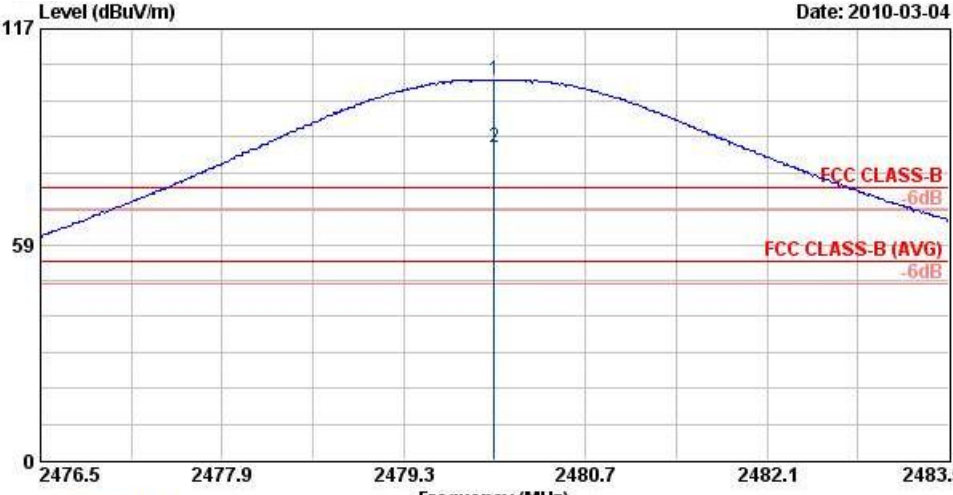
2477.9

2479.3

2480.7

2482.1

2483.5



Date: 2010-03-04

Trace: (Discrete)

Site : 03CH07-HY

Condition : FCC CLASS-B HF-ANT_090824 HORIZONTAL

Project : FR 9N2101-03

Mode : Mode 1

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2480.00	103.17	29.17	74.00	99.71	32.27	5.38	34.19	103	308	Peak
2 @	2480.00	84.90	30.90	54.00	81.43	32.27	5.38	34.19	103	308	Average

* Maximum field strength of the fundamental emission

Test Mode :	Mode 1	Temperature :	25~26°C
Test Channel :	78	Relative Humidity :	48~51%
Test Engineer :	Cona Huang	Polarization :	Horizontal

Level (dBuV/m)

117

59

0

2476 2480.8 2485.6 2490.4 2495.2 2500

Frequency (MHz)

Trace: (Discrete)

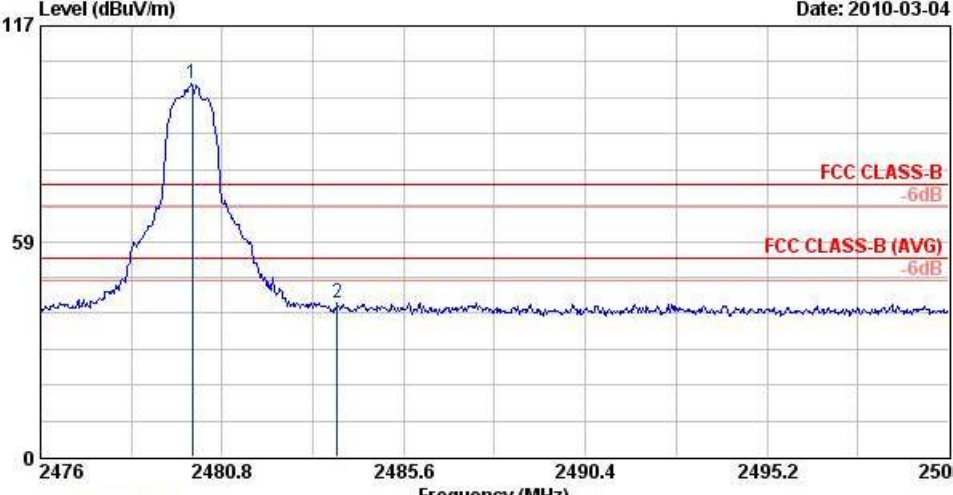
Site : 03CH07-HY

Condition : FCC CLASS-B HF-ANT_000824 HORIZONTAL

Project : FR 9N2101-03

Mode : Mode 1

Date: 2010-03-04



FCC CLASS-B -6dB

FCC CLASS-B (AVG) -6dB

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	Remark
1 @	2480.00	101.41	27.41	74.00	97.95	32.27	5.38	34.19	103	308	Peak
2	2483.85	41.54	-32.46	74.00	38.07	32.27	5.38	34.19	103	308	Peak

* Marker-Delta Method (RBW/VBW=100KHz): 59.87 dB , single carrier Mode

Test Mode :	Mode 1	Temperature :	25~26°C
Test Channel :	78	Relative Humidity :	48~51%
Test Engineer :	Cona Huang	Polarization :	Horizontal

Level (dBuV/m)

117

59

0

2476

2480.8

2485.6

2490.4

2495.2

2500

1

2

FCC CLASS-B

-6dB

FCC CLASS-B (AVG)

-6dB

Date: 2010-03-04

Trace: (Discrete)

Site : 03CH07-HY

Condition : FCC CLASS-B HF-ANT_090824 HORIZONTAL

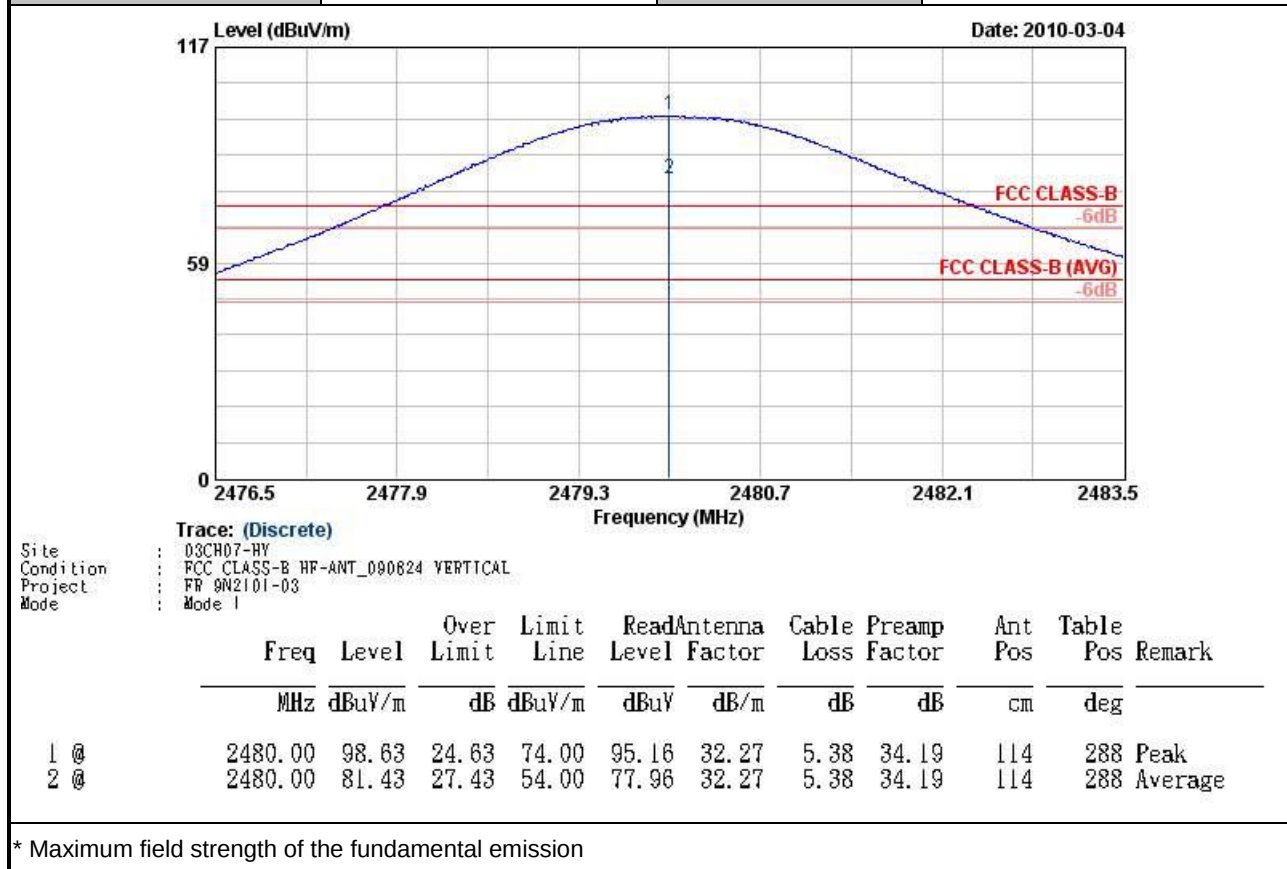
Project : FR 9N2101-03

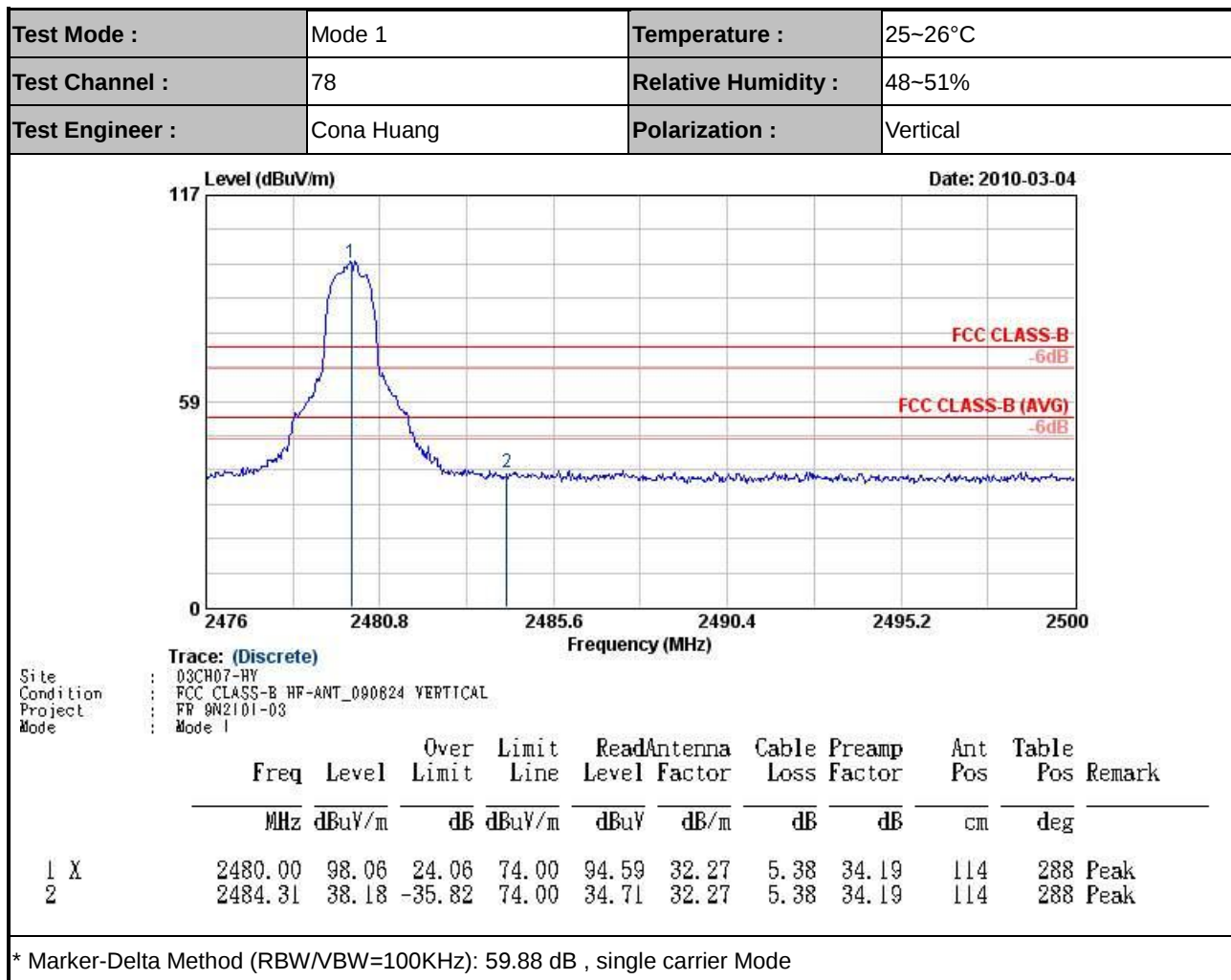
Mode : Mode 1

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2480.00	101.19	27.19	74.00	97.73	32.27	5.38	34.19	103	308	Peak
2	2484.11	42.16	-31.84	74.00	38.69	32.27	5.38	34.19	103	308	Peak

* Marker-Delta Method (RBW/VBW=100KHz): 59.03 dB , Hopping Mode

Test Mode :	Mode 1	Temperature :	25~26°C
Test Channel :	78	Relative Humidity :	48~51%
Test Engineer :	Cona Huang	Polarization :	Vertical





Test Mode :	Mode 1	Temperature :	25~26°C
Test Channel :	78	Relative Humidity :	48~51%
Test Engineer :	Cona Huang	Polarization :	Vertical

Level (dBuV/m)

117

59

0

2476

2480.8

2485.6

2490.4

2495.2

2500

Frequency (MHz)

Trace: (Discrete)

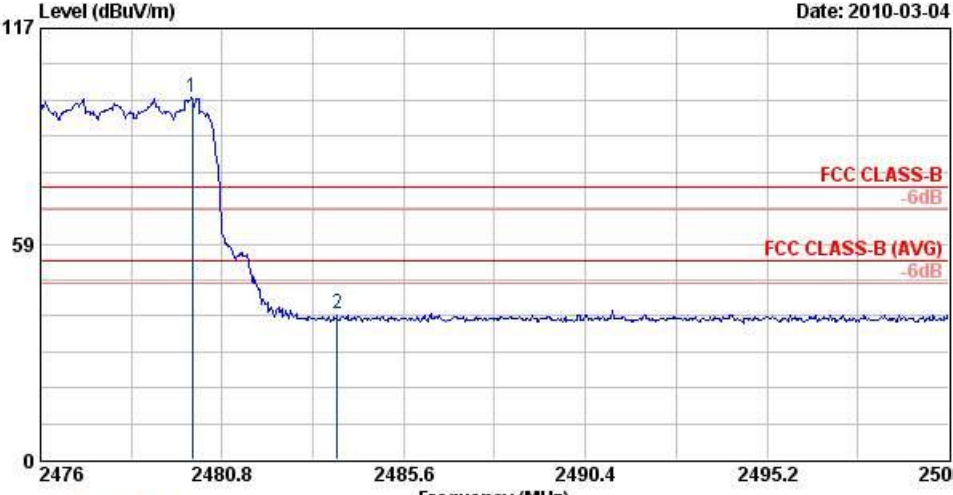
Site : 03CH07-HY

Condition : FCC CLASS-B HF-ANT_000824 VERTICAL

Project : FR 9N2101-03

Mode : Mode 1

Date: 2010-03-04



FCC CLASS-B -6dB

FCC CLASS-B (AVG) -6dB

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	Remark
1 @	2480.00	98.31	24.31	74.00	94.84	32.27	5.38	34.19	114	288	Peak
2	2483.84	39.67	-34.33	74.00	36.20	32.27	5.38	34.19	114	288	Peak

* Marker-Delta Method (RBW/VBW=100KHz): 58.64 dB , Hopping Mode

3.2 Radiated Emission Measurement

3.2.1 Limit of Radiated Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2 Measuring Instruments

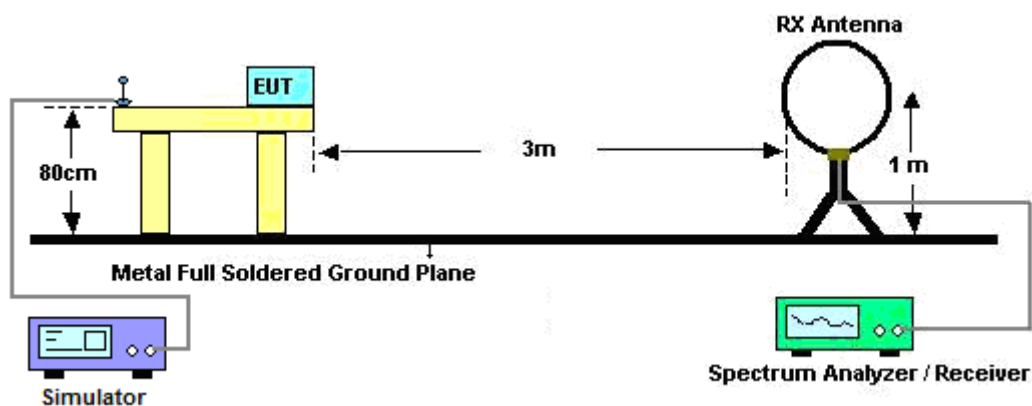
See list of measuring instruments of this test report.

3.2.3 Test Procedures

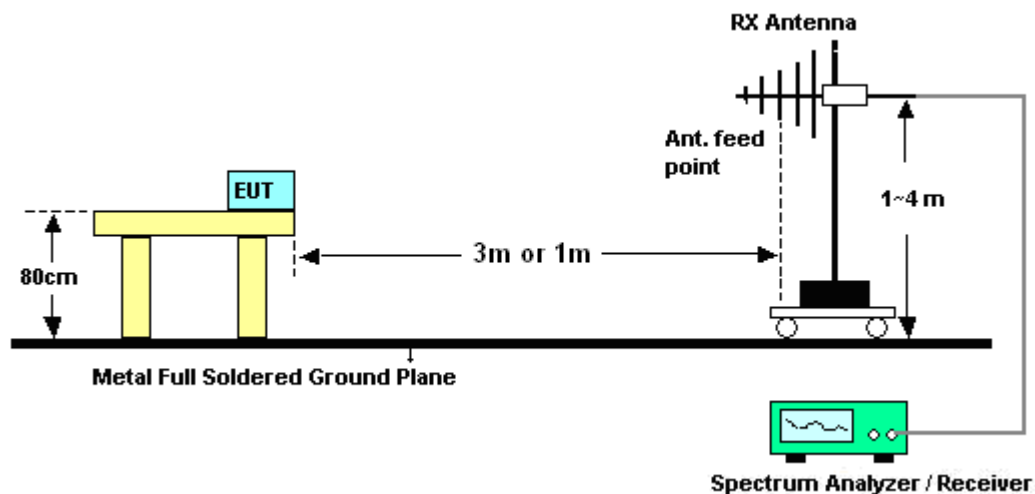
1. The testing follows the guidelines in FCC Public Notice DA 00-705 Measurement Guidelines.
2. Use the following spectrum analyzer settings:
 - (1) Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
 - (2) Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.
Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$ (dB)
3. Follow the guidelines in ANSI C63.4-2003 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

3.2.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



3.2.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

Test Engineer :	Cona Huang	Temperature :	25~26℃	
		Relative Humidity :	48~51%	

Frequency (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

3.2.6 Test Result of Radiated Emission (30 MHz ~ 10th Harmonic)

Test Mode :	Mode 1	Temperature :	25~26°C
Test Channel :	78	Relative Humidity :	48~51%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2480 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	24.21	-15.79	40	35.76	19.51	0.64	31.7	124	168	Peak
124.5	23.35	-20.15	43.5	41.8	11.89	1.34	31.68	-	-	Peak
165.81	23.89	-19.61	43.5	44.03	9.96	1.53	31.63	-	-	Peak
382.6	28.2	-17.8	46	41.27	15.67	2.49	31.23	-	-	Peak
461.7	27.57	-18.43	46	38.5	17.38	2.83	31.14	-	-	Peak
520.5	26.27	-19.73	46	35.78	18.57	3	31.08	-	-	Peak
2350	48.1	-25.9	74	44.69	32.05	5.5	34.14	103	308	Peak
2350	38.95	-15.05	54	35.54	32.05	5.5	34.14	103	308	Average
2480	85.16	-	-	81.7	32.27	5.38	34.19	103	308	Average
2480	102.94	-	-	99.48	32.27	5.38	34.19	103	308	Peak
2483.5	68.23	-5.77	74	64.77	32.27	5.38	34.19	103	308	Peak
2483.5	25.87	-28.13	54	22.41	32.27	5.38	34.19	103	308	Average
8286	55.41	-18.59	74	44.47	36	10.04	35.1	100	231	Peak
8286	39.4	-14.6	54	28.46	36	10.04	35.1	100	231	Average

Test Mode :	Mode 1	Temperature :	25~26°C
Test Channel :	78	Relative Humidity :	48~51%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2480 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
55.65	30.06	-9.94	40	53.94	6.95	0.87	31.7	100	114	Peak
106.41	25.81	-17.69	43.5	45.33	10.97	1.2	31.69	-	-	Peak
174.18	26.84	-16.66	43.5	47.58	9.32	1.57	31.63	-	-	Peak
315.4	21.12	-24.88	46	36.42	13.87	2.2	31.37	-	-	Peak
385.4	23.31	-22.69	46	36.32	15.72	2.5	31.23	-	-	Peak
520.5	25.23	-20.77	46	34.74	18.57	3	31.08	-	-	Peak
2350	46.93	-27.07	74	43.52	32.05	5.5	34.14	114	288	Peak
2350	37.69	-16.31	54	34.28	32.05	5.5	34.14	114	288	Average
2480	97.46	-	-	94	32.27	5.38	34.19	114	288	Peak
2480	80.8	-	-	77.34	32.27	5.38	34.19	114	288	Average
2483.5	62.97	-11.03	74	59.51	32.27	5.38	34.19	114	288	Peak
2483.5	22.79	-31.21	54	19.33	32.27	5.38	34.19	114	288	Average
8316	54.14	-19.86	74	43.19	36	10.05	35.1	100	157	Peak
8316	39.36	-14.64	54	28.41	36	10.05	35.1	100	157	Average



3.3 Antenna Requirements

3.3.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.3.2 Antenna Connected Construction

The antennas type used in this product is PIFA Antenna without connector and it is considered to meet antenna requirement.

3.3.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Bilog Antenna	SCHAFFNER	CBL6111C	2726	30MHz ~ 1GHz	Oct. 31, 2009	Oct. 30, 2010	Radiation (03CH07-HY)
Spectrum Analyzer	R&S	FSP	101067	9KHz ~ 30GHz	Dec. 04, 2009	Dec. 03, 2010	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 20, 2009	Aug. 19, 2010	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 14, 2009	Oct. 13, 2010	Radiation (03CH07-HY)
Pre Amplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Dec.09,2009	Dec. 08, 2010	Radiation (03CH07-HY)
Pre Amplifier	COM-POWER	PA-103A	161241	10-1000MHz.32 dB.GAIN	Mar. 27, 2009	Mar. 26, 2010	Radiation (03CH07-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 KHz~30 MHz	May 22, 2008	May 21, 2010	Radiation (03CH07-HY)

5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.41	Normal (k=2)	0.21
Antenna Factor Calibration	0.83	Normal (k=2)	0.42
Cable Loss Calibration	0.25	Normal (k=2)	0.13
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14
RCV/SPA Specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site Imperfection	1.43	Rectangular	0.83
Mismatch	+0.39 / -0.41	U-Shape	0.28
Combined Standard Uncertainty $U_c(y)$	1.27		
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.54		

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Contribution	Uncertainty of X_i		$u(X_i)$	C_i	$C_i * u(X_i)$
	dB	Probability Distribution			
Receiver Reading	± 0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	± 1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	± 0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	± 2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	± 1.50	Rectangular	0.87	1	0.87
Site Imperfection	± 2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\log(1-\Gamma_1\Gamma_2)$	+0.34 / -0.35	U-Shape	0.244	1	0.244
Combined Standard Uncertainty $U_c(y)$	2.36				
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.72				



Appendix A. Photographs of EUT

Please refer to Sporton report number EP9N1201-03 as below.



Appendix C. Change Note

Please refer to change note as below.



Appendix D. Original Report

Please refer to original report as below.