APPLICATION FOR CERTIFICATION

On Behalf of

LG Electronics Inc.

Portable Computer

Model No.: H1000B

FCC ID: BEJNT-H1000B

Brand: LG

Prepared for: LG Electronics Inc.

19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do,

451-713 Korea

Prepared By: AUDIX Technology Corporation

EMC Department

No. 53-11, Tin-Fu Tsun, Lin-Kou,

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File Number : C1M1010076 Report Number : EM-F991034

Date of Test : Oct. 12 ~ 28, 2010

Date of Report : Oct. 28, 2010

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TEST REPORT CERTIFICATION

Applicant : LG Electronics Inc.
 Manufacturer : LG Electronics Inc.
 EUT Description : Portable Computer
 FCC ID : BEJNT-H1000B

(A) Model No.
 (B) Serial No.
 (C) Brand
 H1000B
 N/A
 LG

(D) Power Supply : DC 19V

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C, Oct. 2009 ANSI C63.4/2003 FCC Public Notice DA 00-705, Mar. 2000

(FCC 47 CFR Part 15C, §15.205 and §15.207 and §15.209 and §15.247)

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

Date of Test:	Oct. 12 ~ 28, 2010	Date of Report :	Oct. 28, 2010
Producer :	(Tina Huang/Administrato	or)	
Review :	(Henning Chang/Supervisor)		
Signatory :	(Ben Cheng/Manager)	

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : Portable Computer

(The EUT is built-in wireless LAN and Bluetooth combo card, this report for Bluetooth. Wireless LAN is tested in others report of EM-F991033)

Model Number : H1000B

Serial Number : N/A

Brand : LG

FCC ID : BEJNT-H1000B

Applicant : LG Electronics Inc.

19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si,

Gyeonggi-do,, 451-713 Korea

Manufacturer : LG Electronics Inc.

299, Gongdan-dong, Gumi-si, Gyeongsangbuk-do, 730-030, Korea

WLAN and Bluetooth

Combo Card (1T1R)

AZUREWAVE, M/N RTL8188CEBT

FCC ID: TX2RTL8188CEBT IC: 6317A-RTL8188CEBT

Fundamental Range : 2400MHz ~ 2483.5MHz

Frequency Channel : 802.11b/g: 11 channels

802.11n-HT20: 11 channels 802.11n-HT40: 7 channels Bluetooth: 79 channels

Radio Technology : 802.11b: DSSS Modulation

(DBPSK/DQPSK/CCK)

802.11g/n: OFDM Modulation

(BPSK/QPSK/16QAM/64QAM)

Bluetooth: GFSK,π /4DQPSK, 8-DPSK

Data Transfer Rate : 802.11b: 1/2/5.5/11Mbps

802.11g: 6/9/12/18/24/36/48/54Mbps

802.11n: up to 150Mbps Bluetooth: 1/2/3Mbps

Antenna Gain : AMAPCLG001 antenna: 1.19dBi (Peak)

AMAPCLG002 antenna: 3.65dBi (Peak)

Battery : Sony, PN:LIP4128

7.4V, 4240mAh, 31Wh

AC/DC Adapter : SUNGHO, M/N SHA1010L

I/P: 100-240V~, 1.2A, 50/60Hz

O/P: 19V, 2.1A, 40W

DC Cord: Non-Shielded, Undetached, 1.5m

Bonded a ferrite core

AC Cord: Non-Shielded, Detached, 1.0m (2Pin)

Date of Receipt of Sample : Oct. 11, 2010

Date of Test : Oct. 12 ~ 28, 2010

Antenna Information

Antenna Part Manufacture		Antenna	Peak Gain W/ Cable loss (dBi)		
Number	Manuracture	Type	Frequency (MHz)	Max Gain (dBi)	
Cable	2400MHz	1.19dBi (peak)			
AMAPCLG001	Amotech	Assembly Antenna	2500MHz	1.19dBi (peak)	
			2500MHz	0.37dBi (peak)	
	Amotech	Cable	2400MHz	2.71dBi (peak)	
AMAPCLG002		Assembly Antenna	2500MHz	3.65dBi (peak)	
			2500MHz	3.69dBi (peak)	

1.2. Tested Supporting System Details

[Only For Conducted Emission Measurement]

1.2.1. USB MOUSE

Model Number : 1000USB
Serial Number : LZ635AB
FCC ID : By DoC
BSMI ID : T41126
Brand : LOGITECH

Data Cable : Shielded, Undetachable, 1.8m

1.2.2. I-POD PLAYER

Model Number : A1204

Serial Number : 4H722TDYVTE

FCC ID : By DoC BSMI ID : R33057 Manufacturer : APPLE

USB Data Cable : Shielded, Undetachable, 1m

1.2.3. EARPHONE

Model Number : N/A
Serial Number : N/A
Manufacturer : APPLE

Earphone Cable : Non-Shielded, Detachable, 0.9m

1.2.4. BLUETOOTH HEADSET

Model Number : IH-05 Serial Number : N/A

Manufacturer : INNOSTAR FCC ID : UU9MBH200

1.2.5. SD CARD (INSTALL IN EUT)

Model Number : AP-SDC51201AC0G

Serial Number : 390619200000

Manufacturer : Apacer Capacity : 512MB

[Partner System]

1.2.6. AP SERVER

Model Number : Di-624

Serial Number : F34U177001195

FCC ID : By DoC Manufacturer : D-Link

LAN Cable : Non-Shielded, Detachable, 1.8m

-to Partner Notebook PC

AC Adapter : M/N AM-91000A

Input: 120VAC 60Hz 15W Output: 9VDC 1000mA

Power Cord: Non-Shielded, Detachable, 1.8m

1.2.7. PARTNER NOTEBOOK PC

Model Number : A8J

Serial Number : 74N0AS228167

FCC ID : By DoC BSMI ID : R31018

Manufacturer : ASUSTeK Computer Inc.

1.3. Description of Test Facility

Name of Firm : AUDIX Technology Corporation

EMC Department

No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,

Taipei Hsien, Taiwan

Test Site : No. 3 Shielded Room

(C3/Semi-AC) No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang

Taipei Hsien, Taiwan

Semi-Anechoic Chamber

No. 53-11, Tin-Fu Tsun, Lin-Kou, Hsiang,

Taipei Hsien, Taiwan

May 14, 2009 Renewal on

Federal Communication Commission

Registration Number: 90993

NVLAP Lab. Code : 200077-0

TAF Accreditation No : 1724

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	± 1.73dB
	30MHz~300MHz	±2.91dB
Radiation Test (Distance: 3m)	300MHz~1000MHz	±2.94dB
(Distance, 5111)	Above 1GHz	± 5.02dB

Remark: Uncertainty = $ku_c(y)$

Test Item	Uncertainty		
20dB Bandwidth	± 0.2kHz		
Carrier Frequency Separation	± 0.2kHz		
Time Of Occupancy	± 0.03sec		
Maximum peak Output power	± 0.52dBm		
Emission Limitations	± 0.13dB		
Band Edges	± 0.13dB		

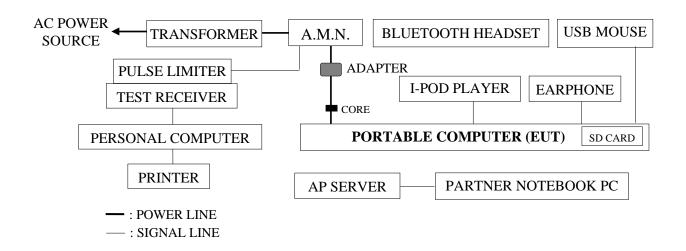
2. CONDUCTED EMISSION MEASUREMET

2.1. Test Equipment

The following test equipment was used during the conducted emission measurement: (No. 3 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS30	100337	Apr. 08, 10'	Apr. 07, 11'
2.	A.M.N.	Kyoritsu	KNW-244C	8-1373-5	Jul. 21, 10'	Jul. 20, 11'
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1370-9	Jun. 09, 10'	Jun. 08, 11'
4.	Pulse Limiter	R & S	ESH3Z2	100041	Feb. 08, 10'	Feb. 07, 11'

2.2. Block Diagram of Test Setup



2.3. Conducted Emission Limits (§15.207)

Frequency	Maximum RF Line Voltage		
	Quasi-Peak Level	Average Level	
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV	
500kHz ~ 5MHz	56 dBμV	46 dBμV	
5MHz ~ 30MHz	60 dBμV	50 dBμV	

Remark1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: The lower limit applies at the band edges.

2.4. Operating Condition of EUT

- 2.4.1. Set up the EUT and simulator as shown on 2.2.
- 2.4.2. Turn on the power of all equipment.
- 2.4.3. The WLAN and Bluetooth combo card was installed in the Portable Computer (EUT), the Portable Computer was running test program "Realtek 11n single chip 92C PCIE WLAN MP Diagnostic Program 0.0015.0524.2010" and to set the EUT on transmitting and receiving during all testing.
- 2.4.4. The other peripheral devices were driven and operated in turn during all testing.

2.5.Test Procedure

The EUT was placed on the table which was above the ground by 80cm and its AC adapter's power cord connected to the AC mains through an Artificial Mains Network (A.M.N.). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions simulators of the interface cables should be manipulated according to FCC ANSI C63.4-2003 regulation, and the measurement guideline was according to FCC Public Notice DA 00-705.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was checked.

All the final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Conducted Emission Measurement Results

PASSED.

(All the emissions not reported below are too low against the prescribed limits.)

[Note: Three types of modulation (GFSK, π /4DQPSK, 8-DPSK) were evaluated but only the worst case (GFSK) was reported in this report.]

EUT was performed during this section testing and all the test results are attached in next pages.

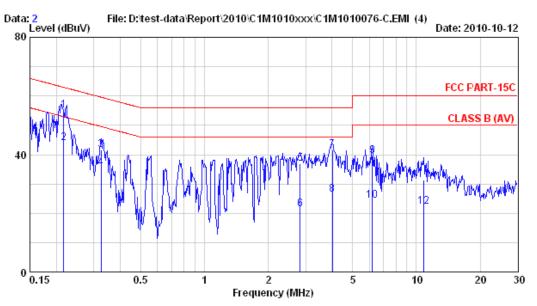
EUT: Portable Computer M/N: H1000B

Test Date : Oct. 12, 2010 Temperature : 21°C Humidity : 48%

Reference Test Data: Neutral # 2; Line # 1



AUDIX TECHNOLOGY Corp. EMC Laboratory No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei County, Taiwan R.O.C. Post Code:24443 Tel:+886-2-26092133 Fax:+886-2-26099303 Email:emc@audixtech.com



Site : No.3 Shielded Room Data : 2

Condition : KNW-244C Phase : NEUTRAL

Limit : FCC PART-15C

Env. / Ins. : 21*C / 48% ESCS 30 (337) Engineer: Edward

EUT M/N : H100B

Power Rating : 120Vac / 60Hz Test Mode : Operating

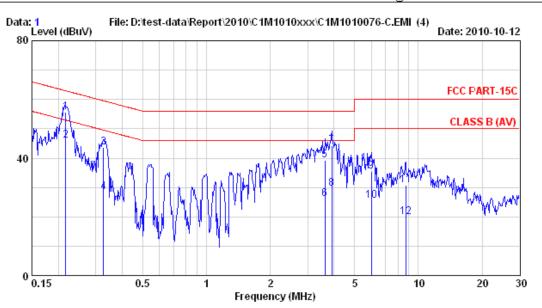
			AMN	Cable		Emission			
		Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(MHz)	(dB)	(dB)	(dBµV)	(dBµV)	(dBµV)	(dB)	
_	1	0.217	0.10	0.20	54.84	55.14	62.94	7.80	QP
	2	0.217	0.10	0.20	43.52	43.82	52.94	9.12	AVERAGE
	3	0.325	0.10	0.20	41.42	41.72	59.58	17.86	QP
	4	0.325	0.10	0.20	35.22	35.52	49.58	14.06	AVERAGE
	5	2.829	0.20	0.40	36.31	36.91	56.00	19.09	QP
	6	2.829	0.20	0.40	20.69	21.29	46.00	24.71	AVERAGE
	7	4.008	0.20	0.60	40.80	41.60	56.00	14.40	QP
	8	4.008	0.20	0.60	25.66	26.46	46.00	19.54	AVERAGE
	9	6.208	0.25	0.60	38.72	39.57	60.00	20.43	QP
	10	6.208	0.25	0.60	23.57	24.42	50.00	25.58	AVERAGE
	11	10.796	0.32	0.70	30.45	31.47	60.00	28.53	QP
	12	10.796	0.32	0.70	21.32	22.34	50.00	27.66	AVERAGE

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Reading.

2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Site : No.3 Shielded Room Data : 1
Condition : KNW-244C Phase : LINE

Limit : FCC PART-15C

Env. / Ins. : 21*C / 48% ESCS 30 (337) Engineer: Edward

EUT M/N : H100B

Power Rating : 120Vac / 60Hz Test Mode : Operating

		MMA	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBµV)	(dBµV)	(dBµV)	(dB)	
1	0.216	0.10	0.20	55.40	55.70	62.96	7.26	QP
2	0.216	0.10	0.20	45.62	45.92	52.96	7.04	AVERAGE
3	0.327	0.10	0.20	43.31	43.61	59.52	15.91	QP
4	0.327	0.10	0.20	28.19	28.49	49.52	21.03	AVERAGE
5	3.628	0.19	0.40	38.58	39.17	56.00	16.83	QP
6	3.628	0.19	0.40	25.43	26.02	46.00	19.98	AVERAGE
7	3.907	0.20	0.40	43.63	44.23	56.00	11.77	QP
8	3.907	0.20	0.40	29.12	29.72	46.00	16.28	AVERAGE
9	6.010	0.29	0.60	34.65	35.54	60.00	24.46	QP
10	6.010	0.29	0.60	24.47	25.36	50.00	24.64	AVERAGE
11	8.738	0.37	0.60	29.91	30.88	60.00	29.12	QP
12	8.738	0.37	0.60	19.05	20.02	50.00	29.98	AVERAGE

Remarks: 1.Emission Level= AMN Factor + Cable Loss + Reading.

2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8564EC	3946A00249	Oct. 27, 09'	Oct. 26, 10'
2.	Test Receiver	R & S	ESCS30	100338	Jul. 08, 10'	Jul. 07, 11'
3.	Amplifier	HP	8447D	2944A06305	Feb. 03, 10'	Feb. 02, 11'
4.	Log Periodic	Schwarzbeck	zbeck UHALP 0810 Mar. 13		Mar. 13, 10'	Mar 12 11'
	Antenna	Schwarzbeck	9108-A	0010	wiai. 13, 10	Iviai. 12, 11
5.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 13, 10'	Mar. 12, 11'

3.1.2. For Frequency Above 1GHz (at Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8564EC	3946A00249	Oct. 27, 09'	Oct. 26, 10'
2.	Amplifier	HP	8449B	3008A00529	Dec. 15, 09'	Dec. 14, 10'
3.	Horn Antenna	EMCO	3115	9112-3775	May 10, 10'	May 09, 11'
4.	Horn Antenna	EMCO	3116	2653	Oct. 04, 10'	Oct. 03, 11'

3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators

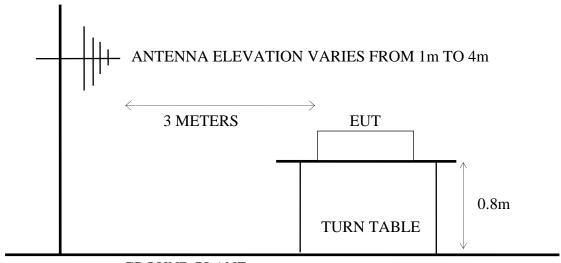
3.2.1.1. Test Mode: WLAN +Bluetooth Function, Test Voltage: AC 120V/60Hz



3.2.1.2. Test Mode: Bluetooth Function Only, Test Voltage: DC 19V

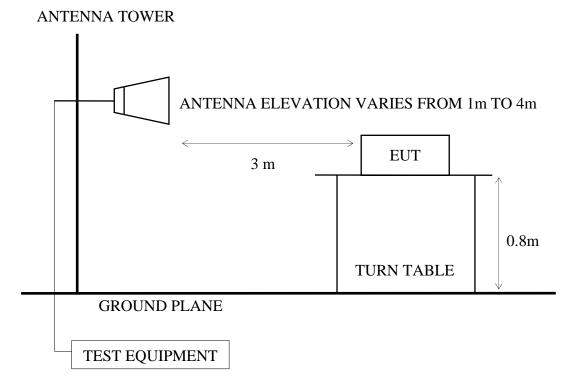
PORTABLE COMPUTER (EUT)

3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz ANTENNA TOWE



GROUND PLANE

3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1 GHz



3.3. Radiated Emission Limits (§15.209)

Frequency	Distance Meters	Field Strengths Limits		
MHz	Distance Meters	$\mu V/m$	dBµV/m	
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46.0	
Above 960	3	500	54.0	
A h ave 1000	2	74.0 dBµV	/m (Peak)	
Above 1000	3	54.0 dBµV/m (Average)		

Remark : (1) Emission level $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$

- (2) The tighter limit applies at the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
- (5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.4. Operating Condition of EUT

[Test Mode: WLAN+Bluetooth Function]

- 3.4.1. Set up the EUT (Portable Computer) and simulator as shown on 3.2.1.1.
- 3.4.2. To turn on the power of all equipments.
- 3.4.3. The EUT (Portable Computer) was running test program "Realtek 11n single chip 92C PCIE WLAN MP Diagnostic Program 0.0015.0524.2010".
- 3.4.4. The EUT was set to continuously transmit signals at 2412MHz (802.11g) through AMAPCLG002 antenna and 2402MHz (GFSK) through AMAPCLG001 antenna during testing.

Test Mode: Bluetooth Function Only

- 3.4.5. Set up the EUT (Portable Computer) and simulator as shown on 3.2.1.2.
- 3.4.6. To turn on the power of all equipments.
- 3.4.7. The EUT (Portable Computer) was running test program "Realtek 11n single chip 92C PCIE WLAN MP Diagnostic Program 0.0015.0524.2010".
- 3.4.8. Transmit Mode: The EUT was set to continuously transmit signals at 2402MHz, 2441MHz and 2480MHz through AMAPCLG002 antenna during testing.
- 3.4.9. Receive Mode: The EUT was set to continuously receive signals at 2441MHz AMAPCLG002 antenna during testing.

3.5. Test Procedure

The EUT and its simulators were placed on the turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log-periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation, and the measurement guideline was according to FCC Public Notice DA 00-705.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz. (For 30MHz to 1000MHz)

The resolution bandwidth and video bandwidth of test spectrum analyzer is 1MHz for peak detection (PK) at frequency above 1GHz.

The resolution bandwidth of test spectrum analyzer is 1MHz and the video bandwidth is 10Hz for average detection (AV) at frequency above 1GHz.

The frequency range from 30MHz to 25GHz (Up to 10th harmonics from fundamental frequency) was checked. 30MHz to 1000MHz was measured with Quasi-Peak detector. Above 1GHz was measured with peak and average detector. For average reading in frequency from 5.5G to 25GHz, we checked it in 1 meter distance and with a shorter cable 2 meter instead of original's. There is no signal exist.

Note: The H1000B built with wireless combo card supports WiFi and BT and can be transmitted simultaneously. The simultaneously radiation emission is measured in 802.11g and BT(GFSK), they are the max power modulation for WiFi and BT.

3.6. Radiated Emission Measurement Results

PASSED. (All the emissions not reported below are too low against the prescribed limits.)

EUT: Portable Computer M/N: H1000B

Test Date : Oct. 19, 2010 Temperature : 24°C Humidity : 63%

This device is portable, so radiation tests on three different axes (stand, lie and side), we assessed the value and we selected the worst radiation position "lie" for our measured results.

For Frequency Range 30MHz-1000MHz:

[Note: Three types of modulation (8-DPSK, π /4DQPSK, GFSK) were evaluated but only the worst case (GFSK) was reported in this report.]

The EUT select **worst position "lie"** and with following test modes were performed during this section testing and all the test results are listed in section 3.6.1.

No	Tast Walters	Total Made	Channal	E	Test Mode	Reference Test Data	
No.	Test Voltage	Test Mode	Channel	Frequency		Horizontal	Vertical
1.	AC 120V/60Hz (Via AC/DC Adapter)	WLAN (802.11g)+ Bluetooth (GFSK)	CH 01+ CH00	2412MHz+ 2480MHz	Transmit	# 2	# 1
2.			CH 00	2402MHz		#7	# 8
3.	DC 19V	Divisional (CECV)	CH 39	2441MHz	Transmit	# 10	# 9
4.	(Via Battery)	Bluetooth (GFSK)	CH 78	2480MHz		# 9	# 10
5.			CH 39	2441MHz	Receive	# 1	# 2

^{*} All above final readings were measured with Quasi-Peak detector.

For Frequency Range above 1GHz:

[Note: Three types of modulation (8-DPSK, π /4DQPSK, GFSK) were evaluated but only the worst case (GFSK) was reported in this report.]

The EUT select **worst position "lie"** and with following test modes was performed during this section testing and all the test results are listed in section 3.6.2.

Ma	Tast Valtage	Toot Mode	Channal	E	Tast Mada	Reference '	Reference Test Data		
No.	Test Voltage	Test Mode	Channel	Frequency	Test Mode	Horizontal	Vertical		
1.	AC 120V/60Hz (Via AC/DC Adapter)	WLAN (802.11g)+ Bluetooth (GFSK)	CH 01+ CH00	2412MHz+ 2480MHz	Transmit	# 4, #5	# 3, #6		
2.			CH 00	2402MHz		# 1, #4	# 2, #3		
3.	DC 19V	Disease of CECV	CH 39	2441MHz	Transmit	# 1, #4	# 2, #3		
4.	(Via Battery)	Bluetooth (GFSK)	CH 78	2480MHz		# 2, #3	# 1, #4		
5.			CH 39	2441MHz	Receive	# 1, #4	# 2, #3		

Note: 1. Above all final readings were measured with Peak detector.

2. For measurements above 1GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement. (According to ANSI C63.4-2003 section 8.3.2.2)

For Restricted Bands:

[Note: Three types of modulation (8-DPSK, π /4DQPSK, GFSK) were evaluated but only two types of modulation (8-DPSK and GFSK) were reported in this report.]

The EUT was tested in restricted bands and all the test results are listed in section 3.6.3. (The restricted bands defined in part 15.205(a))

NI	No. Test Voltage	Tast Valtara	Test Mode	Channal	E	Tost Mode	Reference Test Data	
IN		Test Wiode	Channel	Frequency	Test Mode	Horizontal	Vertical	
1	1.		GFSK	CH 0	2402MHz	Transmit	# 1, # 4	# 2, # 3
2	2.	DC 19V	GLSK	CH 78	2480MHz	Transmit	# 8, # 5	#7,#6
3	3.	(Via Battery)		CH 6	2402MHz		# 9, # 12	# 10, # 11
4	4.		8-DPSK	CH 11	2480MHz	Transmit	# 16, # 13	# 15, # 14

3.6.1. Frequency Range 30MHz-1000MHz Measurement Result

WLAN (802.11g)+Bluetooth (GFSK), Transmit, Frequency: 2412MHz+2480MHz

Site no. : A/C Chamber Data no. : 2

Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL

Limit : FCC PART-15C

Env. / Ins. : 8564EC 24℃/63% □Jarwei Wang

EUT : H1000B Power Rating : 120Vac/60Hz

Test Mode : TX2412(802.11q)+BT TX2480(GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)	Loss	Reading (dBµV)	Emission Level (dBµV/m)		Margin Remark (dB)
1	165.800	20.93	2.70	9.87	33.50	43.50	10.00
2	399.570	17.69	4.80	9.01	31.50	46.00	14.50
3	451.950	17.65	5.40	7.64	30.69	46.00	15.31
4	676.020	22.89	6.40	9.48	38.76	46.00	7.24
5	750.710	23.35	6.70	2.36	32.41	46.00	13.59
6	900.090	24.96	7.37	10.02	42.35	46.00	3.65

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 1

Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL

Limit : FCC PART-15C

EUT : H1000B Power Rating : 120Vac/60Hz

Test Mode : TX2412(802.11g)+BT TX2480(GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin Remark (dB)
1 2	167.740 357.860	20.97 15.90	2.70 4.40	6.67 3.08	30.35 23.38	43.50 46.00	13.15 22.62
3 4	451.950	17.65	5.40	6.69	29.74 30.89	46.00	16.26
5	600.360 676.020	21.31 22.89	6.30 6.40	3.28 5.26	34.54	46.00 46.00	15.11 11.46
6	900.090	24.96	7.37	10.67	43.00	46.00	3.00

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

GFSK, Transmit, Frequency: 2402MHz

: A/C Chamber Site no. Data no. : 7

Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL

Limit : FCC PART-15C Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

: н1000в Power Rating : DC 19V Test Mode : TX2402 (GFSK)

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)		Margin Re (dB)	mark
1	204.600	21.97	3.10	5.79	30.86	43.50	12.64	
2	325.850	15.15	4.20	9.47	28.82	46.00	17.18	
3	400.540	17.66	4.80	9.11	31.57	46.00	14.43	
4	451.950	17.65	5.40	10.52	33.57	46.00	12.43	
5	676.020	22.89	6.40	11.63	40.91	46.00	5.09	
6	750.710	23.35	6.70	3.11	33.16	46.00	12.84	
7	826.370	24.42	7.00	1.67	33.09	46.00	12.91	
8	900.090	24.96	7.37	12.80	45.13	46.00	0.87	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 8

Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL

Limit : FCC PART-15C Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

: H1000B EUT Power Rating : DC 19V

Test Mode : TX2402(GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin Remark (dB)
1	251.160	23.90	3.50	0.74	28.14	46.00	17.86
2	399.570	17.69	4.80	2.54	25.02	46.00	20.98
3	451.950	17.65	5.40	5.71	28.76	46.00	17.24
4	600.360	21.31	6.30	5.66	33.27	46.00	12.73
5	676.020	22.89	6.40	5.63	34.91	46.00	11.09
6	900.090	24.96	7.37	10.97	43.30	46.00	2.70

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

GFSK, Transmit, Frequency: 2441MHz

Site no. : A/C Chamber

Chamber Data no. : 10

VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL Dis. / Ant. : 3m

: FCC PART-15C Limit

Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

: H1000B Power Rating : DC 19V Test Mode : TX2441(GFSK)

	Freq.	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)		Margin Remark (dB)
1	199.750	22.09	3.00	3.85	28.93	43.50	14.57
2	376.290	17.15	4.60	7.65	29.40	46.00	16.60
3	400.540	17.66	4.80	8.64	31.10	46.00	14.90
4	451.950	17.65	5.40	9.00	32.05	46.00	13.95
5	676.020	22.89	6.40	12.53	41.81	46.00	4.19
6	750.710	23.35	6.70	2.15	32.20	46.00	13.80
7	826.370	24.42	7.00	3.66	35.08	46.00	10.92
8	900.090	24.96	7.37	12.14	44.47	46.00	1.53

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 9

Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL

Limit : FCC PART-15C

Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

: H1000B Power Rating : DC 19V Test Mode : TX2441(GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)		Reading (dBµV)		Limits (dBµV/m)	Margin Remark (dB)
1	133.790	19.89	2.40	3.86	26.15	43.50	17.35
2	266.680	24.74	3.70	1.37	29.81	46.00	16.19
3	451.950	17.65	5.40	6.53	29.58	46.00	16.42
4	599.390	21.30	6.30	6.26	33.86	46.00	12.15
5	676.020	22.89	6.40	6.53	35.81	46.00	10.19
6	900.090	24.96	7.37	11.46	43.79	46.00	2.21

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

Ant. pol. : HUKIZUNTAL

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GFSK, Transmit, Frequency: 2480MHz

: A/C Chamber Site no. Data no. : 9

VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL Dis. / Ant. : 3m

Limit : FCC PART-15C Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

: H1000B Power Rating : DC 19V Test Mode : TX2480 (GFSK)

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin Remark (dB)
1	206.540	21.91	3.10	3.39	28.41	43.50	15.09
2	376.290	17.15	4.60	8.58	30.33	46.00	15.67
3	450.010	17.65	5.40	7.47	30.51	46.00	15.49
4	676.020	22.89	6.40	11.13	40.41	46.00	5.59
5	750.710	23.35	6.70	4.29	34.34	46.00	11.66
6	826.370	24.42	7.00	2.64	34.06	46.00	11.94
7	900.090	24.96	7.37	10.66	42.99	46.00	3.01

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 10

Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL

Limit : FCC PART-15C Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

: H1000B Power Rating : DC 19V Test Mode : TX2480 (GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin Remark (dB)
1	295.780	26.48	4.00	0.68	31.15	46.00	14.85
2	451.950	17.65	5.40	4.32	27.37	46.00	18.63
3	599.390	21.30	6.30	5.65	33.25	46.00	12.76
4	676.020	22.89	6.40	3.54	32.82	46.00	13.18
5	707.060	23.55	6.60	-0.28	29.87	46.00	16.13
6	900.090	24.96	7.37	10.19	42.52	46.00	3.48

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

GFSK, Receive, Frequency: 2441MHz

: A/C Chamber Data no. : 1 Site no.

Dis. / Ant. : 3m 3115(4927) Limit : FCC PART-15C (1G-AV) Ant. pol. : HORIZONTAL

Env. / Ins. : $8564EC 24^{\circ}C/63^{\circ}$ □Jarwei Wang

: H1000B Power Rating : DC 19V Test Mode : RX2441(GFSK)

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1000.000	24.30	4.18	18.93	47.41	54.00	6.59	Peak
2	1199.920	24.88	4.59	14.95	44.42	54.00	9.58	Peak
3	1300.720	25.17	4.84	12.87	42.88	54.00	11.12	Peak
4	1401.520	25.46	5.14	12.46	43.06	54.00	10.94	Peak
5	1599.760	26.08	6.14	19.25	51.46	54.00	2.54	Peak
6	1801.360	26.84	6.92	10.80	44.55	54.00	9.45	Peak
7	2002.960	27.60	5.86	8.87	42.33	54.00	11.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 2

Dis. / Ant. : 3m 3115 (4927) Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-AV)

Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

EUT : H1000B Power Rating : DC 19V

Test Mode : RX2441(GFSK)

1 1000.000 24.30 4.18 20.56 49.04 54.00 4.96 Peak 2 1199.920 24.88 4.59 13.23 42.70 54.00 11.30 Peak 3 1398.160 25.41 5.14 12.16 42.71 54.00 11.29 Peak 4 1502.320 25.76 5.43 14.37 45.57 54.00 8.43 Peak 5 1574.560 26.02 5.98 14.69 46.68 54.00 7.32 Peak 6 1594.720 26.08 6.12 17.91 50.12 54.00 3.88 Peak 7 1796.320 26.84 6.92 12.19 45.95 54.00 8.05 Peak 8 1997.920 27.60 5.89 15.03 48.52 54.00 5.48 Peak		Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
3 1398.160 25.41 5.14 12.16 42.71 54.00 11.29 Peak 4 1502.320 25.76 5.43 14.37 45.57 54.00 8.43 Peak 5 1574.560 26.02 5.98 14.69 46.68 54.00 7.32 Peak 6 1594.720 26.08 6.12 17.91 50.12 54.00 3.88 Peak 7 1796.320 26.84 6.92 12.19 45.95 54.00 8.05 Peak 8 1997.920 27.60 5.89 15.03 48.52 54.00 5.48 Peak	1	1000.000	24.30	4.18	20.56	49.04	54.00	4.96	Peak
4 1502.320 25.76 5.43 14.37 45.57 54.00 8.43 Peak 5 1574.560 26.02 5.98 14.69 46.68 54.00 7.32 Peak 6 1594.720 26.08 6.12 17.91 50.12 54.00 3.88 Peak 7 1796.320 26.84 6.92 12.19 45.95 54.00 8.05 Peak 8 1997.920 27.60 5.89 15.03 48.52 54.00 5.48 Peak	2	1199.920	24.88	4.59	13.23	42.70	54.00	11.30	Peak
5 1574.560 26.02 5.98 14.69 46.68 54.00 7.32 Peak 6 1594.720 26.08 6.12 17.91 50.12 54.00 3.88 Peak 7 1796.320 26.84 6.92 12.19 45.95 54.00 8.05 Peak 8 1997.920 27.60 5.89 15.03 48.52 54.00 5.48 Peak	3	1398.160	25.41	5.14	12.16	42.71	54.00	11.29	Peak
6 1594.720 26.08 6.12 17.91 50.12 54.00 3.88 Peak 7 1796.320 26.84 6.92 12.19 45.95 54.00 8.05 Peak 8 1997.920 27.60 5.89 15.03 48.52 54.00 5.48 Peak	4	1502.320	25.76	5.43	14.37	45.57	54.00	8.43	Peak
7 1796.320 26.84 6.92 12.19 45.95 54.00 8.05 Peak 8 1997.920 27.60 5.89 15.03 48.52 54.00 5.48 Peak	5	1574.560	26.02	5.98	14.69	46.68	54.00	7.32	Peak
8 1997.920 27.60 5.89 15.03 48.52 54.00 5.48 Peak	6	1594.720	26.08	6.12	17.91	50.12	54.00	3.88	Peak
2 23711320 21103 3107 20103 30102 31103 3110	7	1796.320	26.84	6.92	12.19	45.95	54.00	8.05	Peak
	8	1997.920	27.60	5.89	15.03	48.52	54.00	5.48	Peak
9 2627.920 29.15 6.68 9.81 45.64 54.00 8.36 Peak	9	2627.920	29.15	6.68	9.81	45.64	54.00	8.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

3.6.2. Frequency Range Above 1GHz Measurement Results

WLAN (802.11g)+Bluetooth (GFSK), Transmit, Frequency: 2412MHz+2480MHz

Site no. : A/C Chamber Data no. : 4

Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL

Limit : FCC PART-15C (1G-AV)

Env. / Ins. : 8564EC 24℃/63% □Jarwei Wang

EUT : H1000B Power Rating : 120Vac/60Hz

Test Mode : TX2412(802.11g)+BT TX2480(GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1003.360	24.30	4.18	11.47	39.95	54.00	14.05	Peak
2	1398.160	25.41	5.14	10.66	41.21	54.00	12.79	Peak
3	1502.320	25.76	5.43	16.05	47.25	54.00	6.75	Peak
4	1594.720	26.08	6.12	12.08	44.29	54.00	9.71	Peak
5	1796.320	26.84	6.92	15.17	48.93	54.00	5.07	Peak
6	2023.120	27.64	5.89	12.72	46.24	54.00	7.76	Peak
7	2199.520	28.06	6.11	12.24	46.41	54.00	7.59	Peak
8	2254.960	28.17	6.17	10.89	45.23	54.00	8.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 3

Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-AV)

Env. / Ins. : 8564EC 24℃/63% □Jarwei Wang

EUT : H1000B Power Rating : 120Vac/60Hz

Test Mode : TX2412(802.11g)+BT TX2480(GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1000.000	24.30	4.18	15.08	43.56	54.00	10.44	Peak
2	1398.160	25.41	5.14	15.65	46.20	54.00	7.80	Peak
3	1502.320	25.76	5.43	20.28	51.48	54.00	2.52	Peak
4	1515.760	25.76	5.54	17.16	48.46	54.00	5.54	Peak
5	1599.760	26.08	6.14	12.72	44.93	54.00	9.07	Peak
6	1801.360	26.84	6.92	15.73	49.48	54.00	4.52	Peak
7	2023.120	27.64	5.89	16.34	49.86	54.00	4.14	Peak
8	2191.120	28.02	6.10	11.59	45.71	54.00	8.29	Peak
9	2594.320	29.04	6.61	12.23	47.89	54.00	6.11	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

Site no. : A/C Chamber Data no. : 5

Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL

Limit : FCC PART-15C (1G-AV)

Env. / Ins. : $8564EC 24^{\circ}C/63^{\circ}$ □Jarwei Wanq

: H1000B Power Rating: 120Vac/60Hz

Test Mode : TX2412(802.11g)+BT TX2480(GFSK)

Emission Ant. Cable

Freq. Factor Loss Reading Level Limits Margin Remark

 $(\text{MHz}) \qquad (\text{dB/m}) \quad (\text{dB}) \qquad (\text{dB}\mu\text{V}) \qquad (\text{dB}\mu\text{V/m}) \quad (\text{dB}\mu\text{V/m}) \quad (\text{dB})$

-----1 2995.480 30.34 7.20 8.27 45.82 54.00 8.18 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 6

Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-AV) Env. / Ins. : 8564EC 24°C/63%

□Jarwei Wang

: н1000в Power Rating: 120Vac/60Hz

Test Mode : TX2412(802.11g)+BT TX2480(GFSK)

Emission Ant. Cable

Freq. Factor Loss Reading Level Limits Margin Remark

(MHz) (dB/m) (dB) $(dB\mu V)$ $(dB\mu V/m)$ $(dB\mu V/m)$ (dB)

1 2992.840 30.34 7.20 10.04 47.58 54.00 6.42 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

GFSK, Transmit, Frequency: 2402MHz

: A/C Chamber Data no. : 1 Site no.

Ant. pol. : HORIZONTAL

Dis. / Ant. : 3m 3115(4927)
Limit : FCC PART-15C (1G-AV)

Env. / Ins. : 8564EC 24℃/63% □Jarwei Wang

: H1000B Power Rating : DC 19V Test Mode : TX2402 (GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1003.360	24.30	4.18	17.83	46.31	54.00	7.69	Peak
2	1196.560	24.88	4.58	18.20	47.66	54.00	6.34	Peak
3	1393.120	25.41	5.12	14.34	44.87	54.00	9.13	Peak
4	1502.320	25.76	5.43	12.89	44.09	54.00	9.91	Peak
5	1599.760	26.08	6.14	14.82	47.03	54.00	6.97	Peak
6	1801.360	26.84	6.92	12.47	46.22	54.00	7.78	Peak
7	1994.560	27.60	5.91	10.98	44.49	54.00	9.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 2

Dis. / Ant. : 3m 3115 (4927) Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-AV) Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

: H1000B Power Rating : DC 19V

Test Mode : TX2402(GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1000.000	24.30	4.18	17.69	46.17	54.00	7.83	Peak
2	1398.160	25.41	5.14	13.09	43.64	54.00	10.36	Peak
3	1502.320	25.76	5.43	14.62	45.82	54.00	8.18	Peak
4	1574.560	26.02	5.98	15.74	47.73	54.00	6.27	Peak
5	1599.760	26.08	6.14	15.42	47.63	54.00	6.37	Peak
6	1796.320	26.84	6.92	12.81	46.57	54.00	7.43	Peak
7	1994.560	27.60	5.91	15.74	49.25	54.00	4.75	Peak
8	2627.920	29.15	6.68	10.17	46.00	54.00	8.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

Site no. : A/C Chamber Data no. : 4

Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL

Limit : FCC PART-15C (1G-AV)

Env. / Ins. : 8564EC 24℃/63% □Jarwei Wanq

: H1000B Power Rating : DC 19V

Test Mode : TX2402 (GFSK)

Emission Ant. Cable

Freq. Factor Loss Reading Level Limits Margin Remark (MHz) (dB/m) (dB) (dB μ V) (dB μ V/m) (dB μ V/m) (dB)

______ 1 3001.480 30.40 7.22 8.96 46.58 54.00 7.42 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official

limit are not reported.

Ant. pol. : VERTICAL

Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VE
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : 8564EC 24°C/63% DJ
EUT : H1000B □Jarwei Wang

Power Rating : DC 19V

Test Mode : TX2402 (GFSK)

Ant. Cable Emission

Freq. Factor Loss Reading Level Limits Margin Remark

(MHz) (dB/m) (dB) $(dB\mu V)$ $(dB\mu V/m)$ $(dB\mu V/m)$ (dB)

1 3001.480 30.40 7.22 10.02 47.64 54.00 6.36 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official

limit are not reported.

GFSK, Transmit, Frequency: 2441MHz

: A/C Chamber Site no. Data no. : 1

Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL

: FCC PART-15C (1G-AV) Limit

Env. / Ins. : 8564EC 24℃/63% □Jarwei Wang

: H1000B Power Rating : DC 19V

Test Mode : TX2441(GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1003.360	24.30	4.18	18.92	47.40	54.00	6.60	Peak
2	1199.920	24.88	4.59	11.40	40.87	54.00	13.13	Peak
3	1401.520	25.46	5.14	13.13	43.73	54.00	10.27	Peak
4	1574.560	26.02	5.98	13.90	45.89	54.00	8.11	Peak
5	1594.720	26.08	6.12	13.79	46.00	54.00	8.00	Peak
6	1801.360	26.84	6.92	12.86	46.61	54.00	7.39	Peak
7	1997.920	27.60	5.89	9.26	42.75	54.00	11.25	Peak
3 4 5	1199.920 1401.520 1574.560 1594.720 1801.360	24.88 25.46 26.02 26.08 26.84	4.59 5.14 5.98 6.12 6.92	11.40 13.13 13.90 13.79 12.86	40.87 43.73 45.89 46.00 46.61	54.00 54.00 54.00 54.00 54.00	13.13 10.27 8.11 8.00 7.39	Peak Peak Peak Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Dis. / Ant. : 3m 3115(4927) Data no. : 2 Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-AV)
Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

: H1000B Power Rating : DC 19V

Test Mode : TX2441(GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1000.000	24.30	4.18	21.32	49.80	54.00	4.20	Peak
2	1199.920	24.88	4.59	13.02	42.49	54.00	11.51	Peak
3	1401.520	25.46	5.14	15.46	46.06	54.00	7.94	Peak
4	1502.320	25.76	5.43	13.23	44.43	54.00	9.57	Peak
5	1574.560	26.02	5.98	15.86	47.85	54.00	6.15	Peak
6	1599.760	26.08	6.14	16.02	48.23	54.00	5.77	Peak
7	1792.960	26.84	6.94	15.10	48.88	54.00	5.12	Peak
8	2002.960	27.60	5.86	15.39	48.85	54.00	5.15	Peak
9	2627.920	29.15	6.68	11.57	47.40	54.00	6.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

Site no. : A/C Chamber Data no. : 4

Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL

Limit : FCC PART-15C (1G-AV)

Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

EUT : H1000B Power Rating : DC 19V

Test Mode : TX2441(GFSK)

Emission Ant. Cable

Freq. Factor Loss Reading Level Limits Margin Remark (MHz) (dB/m) (dB) (dB μ V) (dB μ V/m) (dB μ V/m) (dB)

_____ 1 3001.480 30.40 7.22 9.80 47.42 54.00 6.58 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official

limit are not reported.

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(4927) Data no. : 3

Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-AV) Env. / Ins. : 8564EC 24°C/63% □Jarwei Wanq

साम : H1000B Power Rating : DC 19V

Test Mode : TX2441(GFSK)

Ant. Cable Emission

Freq. Factor Loss Reading Level Limits Margin Remark

(MHz) (dB/m) (dB) $(dB\mu V)$ $(dB\mu V/m)$ $(dB\mu V/m)$ (dB)

47.83 54.00 6.17 Peak 1 3001.480 30.40 7.22 10.21 ______

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official

limit are not reported.

GFSK, Transmit, Frequency: 2480MHz

: A/C Chamber Site no. Data no. : 2

Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL

: FCC PART-15C (1G-AV) Limit

Env. / Ins. : 8564EC 24℃/63% □Jarwei Wang

: H1000B Power Rating : DC 19V

Test Mode : TX2480 (GFSK)

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1003.360	24.30	4.18	18.99	47.47	54.00	6.53	Peak
2	1401.520	25.46	5.14	14.98	45.58	54.00	8.42	Peak
3	1502.320	25.76	5.43	14.39	45.59	54.00	8.41	Peak
4	1574.560	26.02	5.98	14.30	46.29	54.00	7.71	Peak
5	1599.760	26.08	6.14	15.88	48.09	54.00	5.91	Peak
6	1792.960	26.84	6.94	10.70	44.48	54.00	9.52	Peak
7	2002.960	27.60	5.86	9.75	43.21	54.00	10.79	Peak
8	2627.920	29.15	6.68	7.53	43.36	54.00	10.64	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Data no. : 1

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-AV) Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

: H1000B Power Rating : DC 19V

Test Mode : TX2480 (GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1003.360	24.30	4.18	19.80	48.28	54.00	5.72	Peak
2	1398.160	25.41	5.14	13.34	43.89	54.00	10.11	Peak
3	1502.320	25.76	5.43	13.79	44.99	54.00	9.01	Peak
4	1577.920	26.02	5.98	16.87	48.86	54.00	5.14	Peak
5	1599.760	26.08	6.14	15.44	47.65	54.00	6.35	Peak
6	1796.320	26.84	6.92	12.56	46.32	54.00	7.68	Peak
7	2002.960	27.60	5.86	12.60	46.06	54.00	7.94	Peak
8	2196.160	28.02	6.11	9.79	43.92	54.00	10.08	Peak
9	2627.920	29.15	6.68	10.38	46.21	54.00	7.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

Site no. : A/C Chamber Data no. : 3

Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL

Limit : FCC PART-15C (1G-AV)

Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

EUT : H1000B Power Rating : DC 19V

Test Mode : TX2480 (GFSK)

Emission Ant. Cable

Freq. Factor Loss Reading Level Limits Margin Remark (MHz) (dB/m) (dB) (dB μ V) (dB μ V/m) (dB μ V/m) (dB)

1 3001.480 30.40 7.22 9.75 47.37 54.00 6.63 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Data no. : 4

Site no. : A/C Chamber Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-AV) Env. / Ins. : 8564EC 24°C/63%

□Jarwei Wanq

: H1000B Power Rating : DC 19V Test Mode : TX2480 (GFSK)

> Ant. Cable Emission

Freq. Factor Loss Reading Level Limits Margin Remark

(MHz) (dB/m) (dB) $(dB\mu V)$ $(dB\mu V/m)$ $(dB\mu V/m)$ (dB)

______ 1 3001.480 30.40 7.22 9.43 47.05 54.00 6.95 Peak ______

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

GFSK, Receive, Frequency: 2441MHz

Site no. : A/C Chamber Data no. : 1

Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL

Limit : FCC PART-15C (1G-AV)

Env. / Ins. : 8564EC 24℃/63% □Jarwei Wang

EUT : H1000B
Power Rating : DC 19V
Test Mode : RX2441(GFSK)

	Freq.	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1000.000	24.30	4.18	18.93	47.41	54.00	6.59	Peak
2	1199.920	24.88	4.59	14.95	44.42	54.00	9.58	Peak
3	1300.720	25.17	4.84	12.87	42.88	54.00	11.12	Peak
4	1401.520	25.46	5.14	12.46	43.06	54.00	10.94	Peak
5	1599.760	26.08	6.14	19.25	51.46	54.00	2.54	Peak
6	1801.360	26.84	6.92	10.80	44.55	54.00	9.45	Peak
7	2002.960	27.60	5.86	8.87	42.33	54.00	11.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 2

Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-AV)

Env. / Ins. : 8564EC 24℃/63% □Jarwei Wang

EUT : H1000B Power Rating : DC 19V

Test Mode : RX2441(GFSK)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1000.000	24.30	4.18	20.56	49.04	54.00	4.96	Peak
2	1199.920	24.88	4.59	13.23	42.70	54.00	11.30	Peak
3	1398.160	25.41	5.14	12.16	42.71	54.00	11.29	Peak
4	1502.320	25.76	5.43	14.37	45.57	54.00	8.43	Peak
5	1574.560	26.02	5.98	14.69	46.68	54.00	7.32	Peak
6	1594.720	26.08	6.12	17.91	50.12	54.00	3.88	Peak
7	1796.320	26.84	6.92	12.19	45.95	54.00	8.05	Peak
8	1997.920	27.60	5.89	15.03	48.52	54.00	5.48	Peak
9	2627.920	29.15	6.68	9.81	45.64	54.00	8.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

Site no. : A/C Chamber Dis. / Ant. : 3m 3115(4927)

Data no. : 4 Ant. pol. : HORIZONTAL

Limit : FCC PART-15C (1G-AV)
Env. / Ins. : 8564EC 24°C/63% □Jarwei Wang

: H1000B Power Rating : DC 19V Test Mode : RX2441(GFSK)

> Ant. Cable Emission

Freq. Factor Loss Reading Level Limits Margin Remark

(MHz) (dB/m) (dB) $(dB\mu V)$ $(dB\mu V/m)$ $(dB\mu V/m)$ (dB)

1 3001.480 30.40 7.22 8.99 46.61 54.00 7.39 Peak ______

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official

limit are not reported.

Site no. : A/C Chamber Data no. : 3

Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL

Limit : FCC PART-15C (1G-AV) Env. / Ins. : 8564EC 24°C/63%

□Jarwei Wanq

EUT : H1000B Power Rating : DC 19V

Test Mode : RX2441(GFSK)

Ant. Cable Emission

Freq. Factor Loss Reading Level Limits Margin Remark (MHz) (dB/m) (dB) $(dB\mu V)$ $(dB\mu V/m)$ $(dB\mu V/m)$ (dB)

1 3001.480 30.40 7.22 10.35 47.97 54.00 6.03 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

3.6.3. Restricted Bands Measurement Results

Date of Test: Oct. 19, 2010 Temperature: 24° C

EUT: Portable Computer Humidity: 63%

Test Mode: GFSK, Transmit, Channel: 0, Frequency: 2402MHz

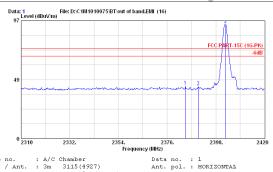
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBµV	Emission Leve Horizontal dBµV/m	l Limits dBμV/m	Margin dB
Peak *	2384.280	28.43	6.33	8.08	42.84	74.00	31.16
Average *	2382.240	28.43	6.33	-1.77	32.99	54.00	21.01

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.

- 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
- 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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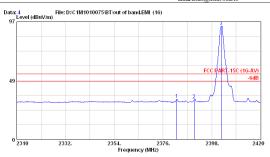
Site no.	:	A/C Chamber	Data	no.	:	1
Dis. / Ant.	:	3m 3115(4927)	Ant.	pol.	:	HORIZONTAL
		FCC PART-15C (1G-PK)				
Env. / Ins.	:	8564EC 24°C/63%				□Jarwei Wang
EUT	:	H1000B				
Power Rating	:	DC 19V				
Test Mode	:	TX2402 (GFSK)				

			Cable		Emission			
	Freq.			Reading	Level	Limits		Remark
	(MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)	
1	2384.280	28.43	6.33	8.08	42.85	74.00	31.15	Peak
2	2390.040	28.47	6.34	7.96	42.78	74.00	31.22	Peak
3	2402.280	28.47	6.36	59.10	93.93	74.00	-19.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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Site no.	:	A/C Chamber	Data	no.	:	4
Dis. / Ant.	:	3m 3115(4927)	Ant.	pol.	:	HORIZONTAL
Limit	:	FCC PART-15C (1G-AV)				
Env. / Ins.	:	8564EC 24°C/63%				□Jarwei Wang
EUT	:	H1000B				
Power Rating	:	DC 19V				
Test Mode		TY2402 (GESK)				

	Freq.	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2382.240	28.43	6.33	-1.77	32.99	54.00	21.01	Average
2	2390.040	28.47	6.34	-2.05	32.77	54.00	21.23	Average
3	2402.280	28.47	6.36	58.75	93.58	54.00	-39.58	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test: Oct. 19, 2010 Temperature: 24°C

EUT: Portable Computer Humidity: 63%

Test Mode: GFSK, Transmit, Channel: 0, Frequency: 2402MHz

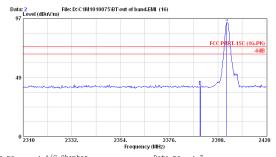
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss	Meter Reading Vertical dBμV	Emission Leve Vertical dBµV/m	l Limits dBμV/m	Margin dB
Peak *	2389.920	28.47	6.34	6.14	40.95	74.00	33.05
Average *	2389.920	28.47	6.34	-2.77	32.04	54.00	21.96

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.

- 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
- 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-FK)
Env. / Ins. : 85548C 24^C/638 UJarwei Wang
EUT : H1000B
Power Rating : DC 19V
Test Mode : TX2402(SFSK)

	Freq.	Ant. Factor (dB/m)	Loss	Reading (dBµV)	Emission Level (dBµV/m)		Remark
2	2390.040	28.47 28.47 28.47	6.34 6.34 6.36	6.14 6.26 59.08	40.95 41.08 93.91	33.05 32.92 -19.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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Site no.				no.		
Dis. / Ant.	:	3m 3115(4927)	Ant.	pol.	:	VERTICAL
Limit	:	FCC PART-15C (1G-AV)				
Env. / Ins.	:	8564EC 24°C/63%				□Jarwei Wang
EUT	:	H1000B				
Power Rating	:	DC 19V				
Test Mode		TY2402 (CRSK)				

 	Fred (MH:				Reading (dBµV)	Emission Level (dBµV/m)		Margin (dB)	Remark
2		140	28.47 28.47 28.47	6.34	-2.77 -2.44 59.22	32.04 32.38 94.05	54.00 54.00 54.00	21.62	Average Average Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading 2. The emission levels that are 20dB below the official limit are not reported. Date of Test: Oct. 19, 2010 Temperature: 24° C

EUT: Portable Computer Humidity: 63%

Test Mode: GFSK, Transmit, Channel: 78, Frequency: 2480MHz

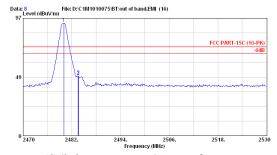
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBµV	Emission Leve Horizontal dBµV/m	l Limits dBμV/m	Margin dB
Peak *	2483.560	28.66	6.45	14.14	49.25	74.00	24.75
Average *	2484.040	28.66	6.45	7.97	43.08	54.00	10.92

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.

- 2. Low frequency section (spurious in the restricted band 2310-2^90MHz).
- 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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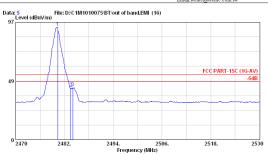
Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 24°C/638 DJarwei Wang
EUW : H1000B
Power Rating : DC 19V
Test Mode : TX2480(GFSK)

	Freq.			Reading (dBµV)	Emission Level (dBµV/m)		Remark
2	2483.560	28.66 28.66 28.66	6.45	57.70 14.14 14.04	92.81 49.26 49.16	 -18.81 24.74 24.84	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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Site no.	:	A/C Chamber	Data	no.	:	5
Dis. / Ant.	:	3m 3115(4927)	Ant.	pol.	:	HORIZONTAL
Limit	:	FCC PART-15C (1G-AV)				
Env. / Ins.	:	8564EC 24°C/63%				□Jarwei Wang
EUT	:	H1000B				
Power Rating	:	DC 19V				
Test Mode		TX2480 (GFSK)				

	Freq.	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)		Margin (dB)	Remark
1	2480.320	28.66	6.44	57.54	92.65	54.00	11.49	Average
2	2483.560	28.66	6.45	7.40	42.51	54.00		Average
3	2484.040	28.66	6.45	7.97	43.08	54.00		Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test: Oct. 19, 2010 Temperature: 24° C

EUT: Portable Computer Humidity: 63%

Test Mode: GFSK, Transmit, Channel: 78, Frequency: 2480MHz

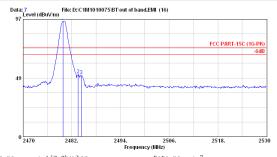
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss	Meter Reading Vertical dBµV	Emission Leve Vertical dBµV/m	l Limits dBμV/m	Margin dB
Peak *	2483.560	28.66	6.45	16.22	51.33	74.00	22.67
Average *	2483.560	28.66	6.45	9.38	44.49	54.00	9.51

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.

- 2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
- 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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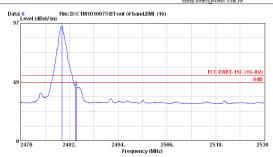
Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 24°C/638 DJarwei Wang
EUW : H1000B
Power Rating : DC 19V
Test Mode : TX2480(GFSK)

	Freq.	Factor		Reading	Emission Level			Remark
	(MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)	
1	2479.840	28.66	6.44	60.19	95.30	74.00	-21.30	Peak
2	2483.560	28.66	6.45	16.22	51.34	74.00	22.66	Peak
3	2484.340	28.66	6.45	15.50	50.61	74.00	23.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading. 2. The emission levels that are 20dB below the official limit are not reported.

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		rrequ	oricy (wiriz)			
Site no.	:	A/C Chamber	Data	no.	:	6
Dis. / Ant.	:	3m 3115(4927)	Ant.	pol.	:	VERTICAL
		FCC PART-15C (1G-AV)				
Env. / Ins.	:	8564EC 24°C/63%				□Jarwei Wang
EUT	:	H1000B				
Power Rating	:	DC 19V				
Test Mode		TY2480 (GESK)				

	Freq.	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)		Margin (dB)	Remark
1	2480.140	28.66	6.44	59.70	94.81	54.00	9.51	Average
2	2483.560	28.66	6.45	9.38	44.49	54.00		Average
3	2483.620	28.66	6.45	9.34	44.46	54.00		Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test: Oct. 19, 2010 Temperature: 24°C

EUT: Portable Computer Humidity: 63%

Test Mode: 8-DPSK, Transmit, Channel: 0, Frequency: 2402MHz

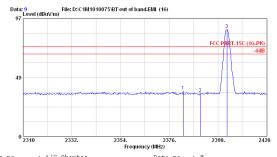
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss	Meter Reading Horizontal dBµV	Emission Leve Horizontal dBµV/m	l Limits dBμV/m	Margin dB
Peak *	2382.270	28.43	6.33	2.40	37.16	74.00	36.84
Average *	2388.760	28.47	6.34	-9.14	25.67	54.00	28.33

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.

- 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
- 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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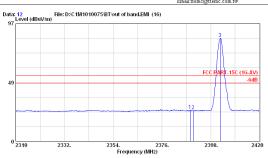
Site no. : A/C Chamber Data no. : 9
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FOC PART-15C (1G-PK)
Env. / Ins. : 8554EC 24°C/638 DJarwei Wan
EUT : H1000B
Power Rating : DC 19V
Test Mode : TX2402(8DPSK)

	Freq.	Ant. Factor (dB/m)	Loss	Reading (dBµV)	Emission Level (dBµV/m)			Remark
2		28.43 28.47 28.47	6.33 6.34 6.36	2.40 0.20 53.28	37.17 35.01 88.11	74.00 74.00 74.00	36.83 38.99 -14.11	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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			Frequency (MHz)				
Site no.	:	A/C Chamber	Dat	no		:	12
Dis. / Ant.	:	3m 3115(4927)	Ant	po.	ı.	:	HORIZONTAL
Limit	:	FCC PART-15C (1G-AV)					
Env. / Ins.	:	8564EC 24°C/63%					□Jarwei Wang
EUT	:	H1000B					
Power Rating	:	DC 19V					
Test Mode	:	TX2402 (8DPSK)					

	Freq.	Ant. Factor (dB/m)	Reading (dBµV)	Emission Level (dBµV/m)		Margin (dB)	Remark
1 2 3	2388.760 2390.080 2402.290	28.47	-9.14 -9.60 50.08	25.67 25.21 84.91	54.00 54.00 54.00	28.79	Average Average Average

Remarks: 1. Emission Level= Antenna Pactor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

63%

Humidity:

Date of Test: Oct. 19, 2010 Temperature: 24°C

Test Mode: 8-DPSK, Transmit, Channel: 0, Frequency: 2402MHz

Portable Computer

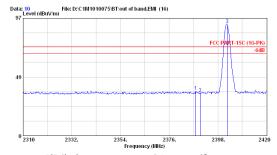
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBµV	Emission Level Vertical dBµV/m	$\begin{array}{c} Limits \\ dB\mu V/m \end{array}$	Margin dB
Peak *	2387.990	28.47	6.34	1.96	36.77	74.00	37.23
Average *	2389.970	28.47	6.34	-8.99	25.82	54.00	28.18

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.

- 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
- 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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EUT:

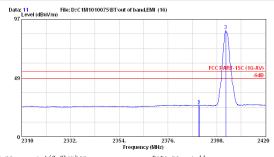
Site no.	: A/C Chamber	Data no.	: 10
Dis. / Ant.	: 3m 3115(4927)	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 24°C/63%		□Jarwei Wang
EUT	: H1000B		
Power Rating	: DC 19V		
Test Mode	: TX2402(8DPSK)		

	Freq.			Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)		Remark
2		28.47 28.47 28.47	6.34 6.34 6.36	1.96 0.09 56.94	36.77 34.90 91.77		39.10	Peak Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are ZOdB below the official limit are not reported.



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Site no.			Data	no.	:	11
		3m 3115(4927)	Ant.	pol.	:	VERTICAL
		FCC PART-15C (1G-AV)				
Env. / Ins.	:	8564EC 24°C/63%				□Jarwei Wang
EUT	:	H1000B				
Power Rating	:	DC 19V				
Test Mode		TY2402 (SDDSK)				

	Freq.	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2389.970	28.47	6.34	-8.99	25.82	54.00	28.26	Average
2	2390.080	28.47	6.34	-9.07	25.74	54.00		Average
3	2402.070	28.47	6.36	52.91	87.74	54.00		Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test: Oct. 19, 2010 Temperature: 24°C

EUT: Portable Computer Humidity: 63%

Test Mode: 8-DPSK, Transmit, Channel: 78, Frequency: 2480MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBµV	Emission Leve Horizontal dBµV/m	l Limits dBμV/m	Margin dB
Peak *	2483.560	28.66	6.45	2.95	38.06	74.00	35.94
Average *	2483.560	28.66	6.45	1.12	36.23	54.00	17.77

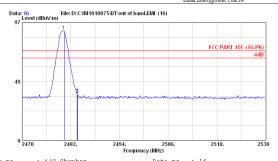
Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.

- 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
- 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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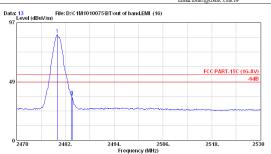
Site no. : A/C Chamber Data no. : 16
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15c (1G-FK)
Env. / Ins. : 8564Ec 24°C/63° DJarwei Wang
EUT : H1000B
Power Rating : DC 19v
Test Mode : TX2480(8DPSK)

	Freq.			Reading (dBµV)	Level (dBµV/m)	Limits (dBµV/m)		Remark	
									•
1	2480.320	28.66	6.44	55.22	90.32	74.00	-16.32	Peak	
2	2483.560	28.66	6.45	2.95	38.06	74.00	35.94	Peak	
3	2483.620	28.66	6.45	2.48	37.59	74.00	36.41	Peak	

Remarks: 1. Emission Level= Antenna Pactor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : A/C Chamber Data no. : 13
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : 8564EC 24°C/63% OJarwei Wang
EUW : H1000B
POWER Rating : DC 19V
Test Mode : TX2480(8DP3K)

Freq.	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)		Margin (dB)	Remark
	28.66 28.66	6.44 6.45 6.45	52.17 1.12 0.58	87.27 36.23 35.69	54.00 54.00 54.00	17.77	Average Average Average

Remarks: 1. Emission Level= Antenna Pactor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test: Oct. 19, 2010 Temperature: $24^{\circ}C$

EUT: Portable Computer Humidity: 63%

Test Mode: 8-DPSK, Transmit, Channel: 78, Frequency: 2480MHz

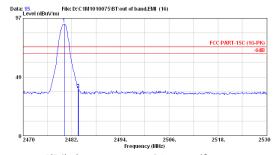
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss	Meter Reading Vertical dBµV	Emission Leve Vertical dBµV/m	l Limits dBμV/m	Margin dB
Peak *	2483.560	28.66	6.45	3.35	38.46	74.00	35.54
Average *	2483.560	28.66	6.45	1.98	37.09	54.00	16.91

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.

- 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
- 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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Site no. : A/C Chamber Data no. : 15
Dis. / Ant. : 3m 3115 (4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564BC 24°C/63* DJarwei Wang
EUW : H1000B Power Rating : DC 19V
Test Mode : TX2480 (8DPSK)

		Ant.	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)	
1	2480.140	28.66	6.44	57.30	92.40	74.00	-18.40	Peak
2	2483.560	28.66	6.45	3.35	38.46	74.00	35.54	Peak
3	2483.620	28.66	6.45	2.84	37.95	74.00	36.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading. 2. The emission levels that are 20dB below the official limit are not reported.

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	:		no. pol.	14 VERTICAL
	:	8564EC 24°C/63%		□Jarwei Wang
Power Rating Test Mode		DC 19V TX2480(8DPSK)		

	Freq.	Ant. Factor (dB/m)		Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2480.020	28.66	6.44	52.80	87.90	54.00	-33.90	Average
2	2483.560	28.66	6.45	1.98	37.09	54.00	16.91	Average
3	2483.620	28.66	6.45	1.41	36.52	54.00	17.48	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

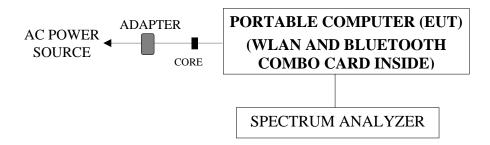
4. 20dB BANDWIDTH MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the 20dB bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10'	Aug. 03, 11'

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.247(a)(1))

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

4.4. Operating Condition of EUT

The test program "Realtek 11n single chip 92C PCIE WLAN MP Diagnostic Program 0.0015.0524.2010" was used to enable the EUT to transmit data at different channel frequency individually..

4.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The RBW of the fundamental frequency was measure by spectrum analyzer 1% of the 20dB bandwidth and the setting equal to RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

The measurement guideline was according to FCC Public Notice DA 00-705.

4.6. Test Results

PASSED. All the test results are attached in next pages.

[Note: Three types of modulation (8-DPSK, π /4DQPSK, GFSK) were evaluated but only two types of modulation (GFSK and 8-DPSK) were reported in this report.]

EUT: Portable Computer M/N: H1000B

Test Date : Oct. 19, 2010 Temperature : 26 ℃ Humidity : 55 %

4.6.1. Type of Modulation: GFSK

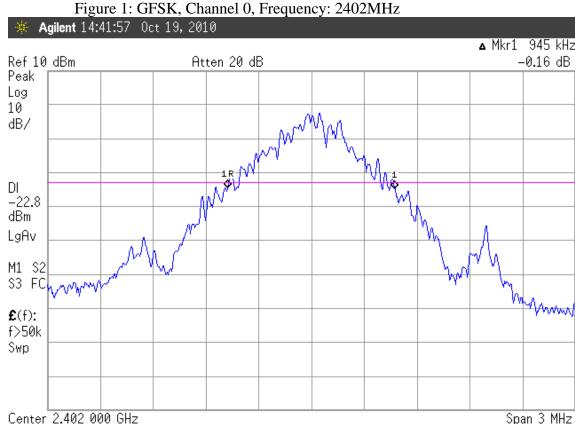
No.	Channel	Test Frequency	20dB Bandwidth	2/3 (20dB Bandwidth)
1.	0	2402MHz	945kHz	630kHz
2.	39	2441MHz	935kHz	623kHz
3.	78	2480MHz	935kHz	623kHz

The maximum two-thirds of the 20dB bandwidth shall be at maximum 0.630MHz.

4.6.2. Type of Modulation: 8-DPSK

No.	Channel	Test Frequency	20dB Bandwidth	2/3 (20dB Bandwidth)
1.	0	2402MHz	1.210MHz	0.807MHz
2.	39	2441MHz	1.205MHz	0.803MHz
3.	78	2480MHz	1.205MHz	0.803MHz

The maximum two-thirds of the 20dB bandwidth shall be at maximum 0.807MHz.



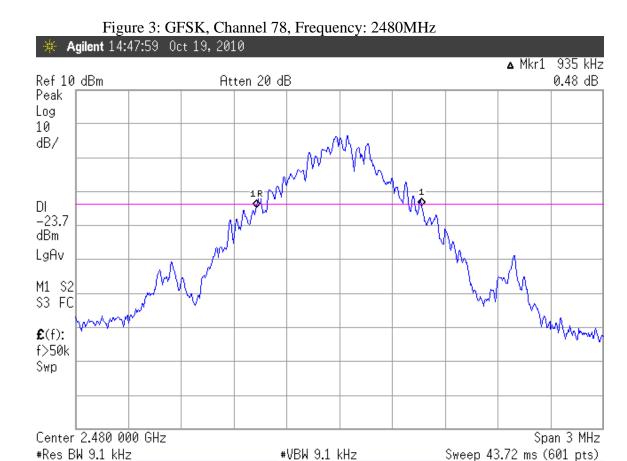


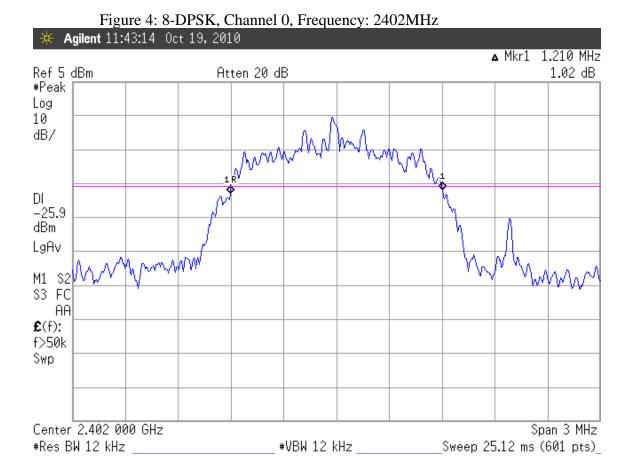
#VBW 9.1 kHz Sweep 43.72 ms (601 pts)



#Res BW 9.1 kHz

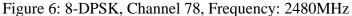














5. CARRIER FREQUENCY SEPARATION MEASUREMENT

5.1. Test Equipment

The following test equipment was used during the carrier frequency separation measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10'	Aug. 03, 11'

5.2. Block Diagram of Test Setup

The same as section.4.2.

5.3. Specification Limits (§15.247(a)(1))

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output no greater than 125mW.

5.4. Operating Condition of EUT

Same as 20dB bandwidth measurement which was listed in section 4.4.

5.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The channel separation was measure by spectrum analyzer with RBW equal to 1% of the span. The video bandwidth not to be smaller than resolution bandwidth, the peak was mark on adjacent bandwidth, the between of peak is carrier frequency separation. The measurement guideline was according to FCC Public Notice DA 00-705.

5.6. Test Results

PASSED. All the test results are attached in next pages.

[Note: Three types of modulation (8-DPSK, π /4DQPSK, GFSK) were evaluated but only two types of modulation (GFSK and 8-DPSK) were reported in this report.]

EUT: Portable Computer M/N: H1000B

Test Date : Oct. 19, 2010 Temperature : 26 °C Humidity : 55 %

5.6.1. Type of Modulation: GFSK

- 1. 2402MHz adjacent channel of carrier frequency separation: 995kHz •
- 2. 2441MHz adjacent channel of right carrier frequency separation: 1.000MHz •
- 3. 2441MHz adjacent channel of left carrier frequency separation: 1.000MHz •
- 4. 2480MHz adjacent channel of carrier frequency separation: 1.000MHz •

[Above values have met the requirement as specified in section 4.3: frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.]

5.6.2. Type of Modulation: 8-DPSK

- 1. 2402MHz adjacent channel of carrier frequency separation: 1.000MHz •
- 2. 2441MHz adjacent channel of right carrier frequency separation: 1.000MHz •
- 3. 2441MHz adjacent channel of left carrier frequency separation: 1.000MHz •
- 4. 2480MHz adjacent channel of carrier frequency separation: 1.000MHz •

[Above values have met the requirement as specified in section 4.3: frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.]

Agilent 14:51:14 Oct 19, 2010 Δ Mkr1 995 kHz Ref 10 dBm Atten 20 dB 0.36 dB Peak Log 10 dB/ LgAv M1 S2 S3 FC £(f): f>50k Swp Center 2.402 000 GHz Span 3 MHz #VBW 30 kHz _____ Sweep 4.04 ms (601 pts)_ #Res BW 30 kHz ____

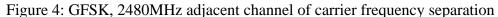
Figure 1: GFSK, 2402MHz adjacent channel of carrier frequency separation

Figure 2: GFSK, 2441MHz adjacent channel of right carrier frequency separation



Agilent 14:52:37 Oct 19, 2010 ▲ Mkr1 1.000 MHz Ref 10 dBm Atten 20 dB -0.01 dB Peak Log 10 dB/ LgAv M1 S2 S3 FC £(f): f>50k Swp Center 2.441 000 GHz Span 3 MHz #VBW 30 kHz _____ Sweep 4.04 ms (601 pts)_ #Res BW 30 kHz ___

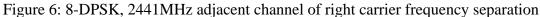
Figure 3: GFSK, 2441MHz adjacent channel of left carrier frequency separation





Agilent 11:51:19 Oct 19, 2010 ▲ Mkr1 1.000 MHz Ref 5 dBm Atten 20 dB 0.03 dB #Peak 1 Ř Log 10 dB/ LgAv M1 S2 S3 FC AΑ £(f): f>50k Swp. Center 2.402 000 GHz Span 3 MHz #Res BW 30 kHz ______ #VBW 30 kHz _____ Sweep 4.04 ms (601 pts)_

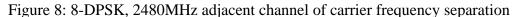
Figure 5: 8-DPSK, 2402MHz adjacent channel of carrier frequency separation





Agilent 11:52:29 Oct 19, 2010 Δ Mkr1 1.000 MHz Ref 5 dBm Atten 20 dB 0.07 dB #Peak Log 10 dB/ LgAv M1 S2 S3 FC AAI £(f): f>50k Swp Center 2.441 000 GHz Span 3 MHz #VBW 30 kHz _____ Sweep 4.04 ms (601 pts)_ #Res BW 30 kHz ___

Figure 7: 8-DPSK, 2441MHz adjacent channel of left carrier frequency separation





6. TIME OF OCCUPANCY MEASUREMENT

6.1. Test Equipment

The following test equipment was used during the time of occupancy measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10'	Aug. 03, 11'

6.2. Block Diagram of Test Setup

The same as section.4.2.

6.3. Specification Limits (§15.247(a)(1)(iii))

Frequency hopping systems in the 2400-2483.5MHz shall use at least 15 non-overlapping channels. 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.

6.4. Operating Condition of EUT

Same as 20dB bandwidth measurement which was listed in section 4.4.

6.5. Test Procedure

The EUT was connected to the notebook. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 1MHz RBW and 1MHz VBW.

VBW≥RBW; Span=zero span.

Centred on a hopping channel sweep=as necessary to capture the entire dwell time per hopping channel; Detector function=peak; Trace=Max hold

The measurement guideline was according to FCC Public Notice DA 00-705.

6.6. Test Results

PASSED. All the test results are attached in next pages.

[Note: Three types of modulation (8-DPSK, π /4DQPSK, GFSK) were evaluated but only two types of modulation (GFSK and 8-DPSK) were reported in this report.]

EUT: Portable Computer M/N: H1000B

Test Date : Oct. 19, 2010 Temperature : 26 $^{\circ}$ C Humidity : 55 $^{\circ}$ Test Date : Oct. 20, 2010 Temperature : 26 $^{\circ}$ C Humidity : 55 $^{\circ}$

6.6.1. Type of Modulation: GFSK, Test Frequency: 2402MHz

Duty cycle: 79channels*0.4 seconds = 31.6 seconds

DH1: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH1 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 79 channels. So you have each channel 10.13 time per second and so for 31.6 seconds you have 320 time of appearance.

Each Tx-time per appearance is 391.7us.

10.13 time * 31.6 seconds * 0.3917 ms = 125.386 ms (< 400 ms)

B. For each 5 seconds of 51 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

51 channels*31.6 seconds/5* 0.3917ms = 126.252ms (<400ms)

DH3: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH3 packet need 3 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 400 hops per second with 79 channels. So you have each channel 5.1 time per second and so for 31.6 seconds you have 161 time of appearance.

Each Tx-time per appearance is 1650us.

5.1 time * 31.6 seconds * 1.650 ms = 265.914 ms (< 400 ms)

B. For each 5 seconds of 25 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

25 channels*31.6 seconds/5* 1.650ms = 260.70ms (<400ms)

DH5: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH5 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 266.7 hops per second with 79 channels. So you have each channel 3.37 time per second and so for 31.6 seconds you have 106 time of appearance.

Each Tx-time per appearance is 2900us.

3.37 time * 31.6 seconds * 2.900 ms = 308.826 ms (< 400 ms)

B. For each 5 seconds of 17 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

* Agilent 18:02:12 Oct 20, 2010 Δ Mkr1 391.7 **μ**s Ref 9.2 dBm -0.03 dB #Atten 30 dB #Peak Log 10 dB/ Offst 1 ďΒ LgAv V1 S2 S3 FC Marther Martin Mayharannyhrah hotophotophops £(f): FTun Center 2.402 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz _____ Sweep 5 ms (601 pts)_ * Agilent 18:10:05 Oct 20, 2010 Ref 9.2 dBm #Atten 30 dB #Peak Log 10 dB/ Offst dΒ LgAv W1 S2 S3 FS

£(f): f>50k

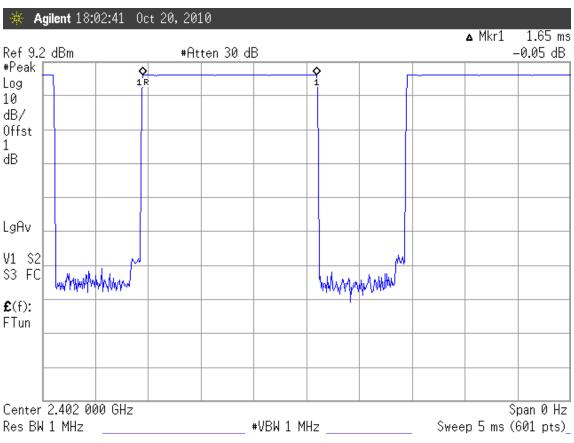
Center 2.402 000 GHz

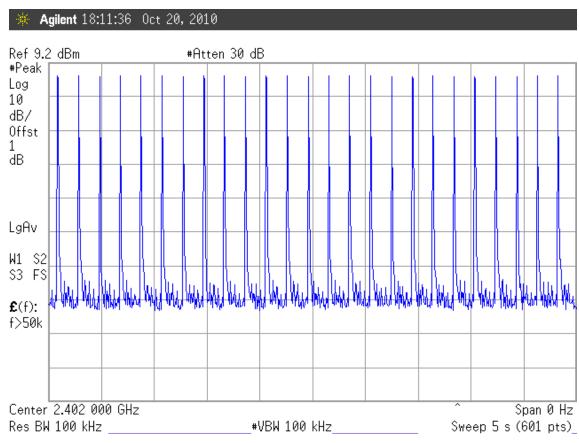
Res BW 100 kHz

Figure 1: GFSK, 2402MHz, DH1

Span 0 Hz

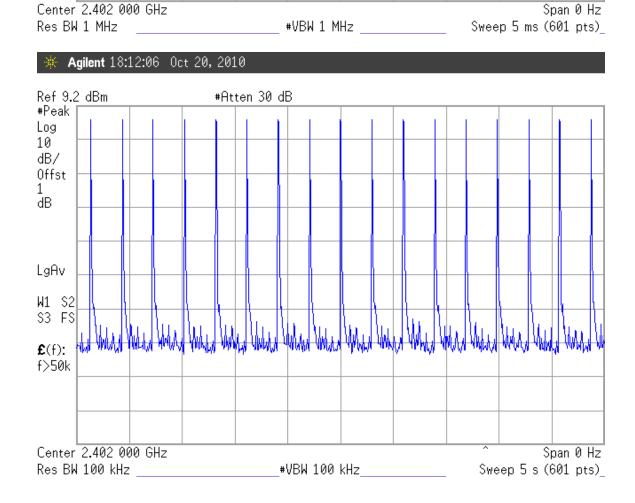
Figure 2: GFSK, 2402MHz, DH3





* Agilent 18:03:22 Oct 20, 2010 Δ Mkr1 2.9 ms Ref 9.2 dBm #Atten 30 dB -0.15 dB #Peak Log 10 dB/ Offst 1 dΒ LgAv V1 S2 S3 FC harrypy phyllosopy or 14.244£(f): FTun

Figure 3: GFSK, 2402MHz, DH5



6.6.2. Type of Modulation: GFSK, Test Frequency: 2441MHz

Duty cycle: 79channels*0.4 seconds = 31.6 seconds

DH1: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH1 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 79 channels. So you have each channel 10.13 time per second and so for 31.6 seconds you have 320 time of appearance.

Each Tx-time per appearance is 391.7us.

10.13 time*31.6 seconds* 0.3917ms = 125.386ms (<400ms)

B. For each 5 seconds of 51 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

51 channels* 31.6 seconds / 5* 0.3917 ms = 126.252 ms (< 400 ms)

DH3: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH3 packet need 3 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 400 hops per second with 79 channels. So you have each channel 5.1 time per second and so for 31.6 seconds you have 161 time of appearance.

Each Tx-time per appearance is 1650us.

5.1 time* 31.6 seconds* 1.650 ms = 265.914 ms (<400 ms)

B. For each 5 seconds of 25 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

25 channels*31.6 seconds/5* 1.650ms = 260.70ms (<400ms)

DH5: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH5 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 266.7 hops per second with 79 channels. So you have each channel 3.37 time per second and so for 31.6 seconds you have 106 time of appearance.

Each Tx-time per appearance is 2900us.

3.37 time * 31.6 seconds * 2.900 ms = 308.826 ms (< 400 ms)

B. For each 5 seconds of 17 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

* Agilent 15:25:46 Oct 19, 2010 Δ Mkr1 391.7 **μ**s Ref 10 dBm -0.02 dB Atten 20 dB #Peak Log 10 dB/ LgAv V1 S2 S3 FC **£**(f): hypy hypyrynyn wyrardiadiha hahawanaan ahan ka Magginet Hoperation of the FTun Center 2.441 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz _____ Sweep 5 ms (601 pts)_ **Agilent** 15:29:57 Oct 19, 2010 Ref 10 dBm Atten 20 dB #Peak Log 10 dB/ LgAv

W1 S2 S3 FS

£(f): f>50k

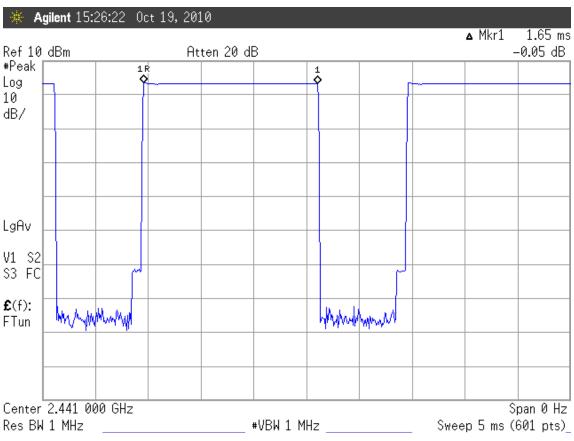
Center 2.441 000 GHz

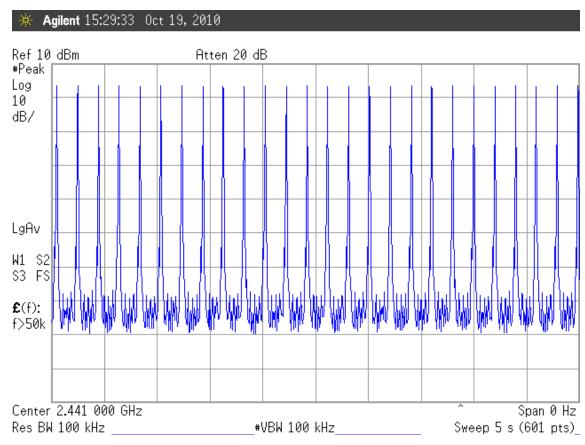
Res BW 100 kHz

Figure 1: GFSK, 2441MHz, DH1

Span 0 Hz

Figure 2: GFSK, 2441MHz, DH3





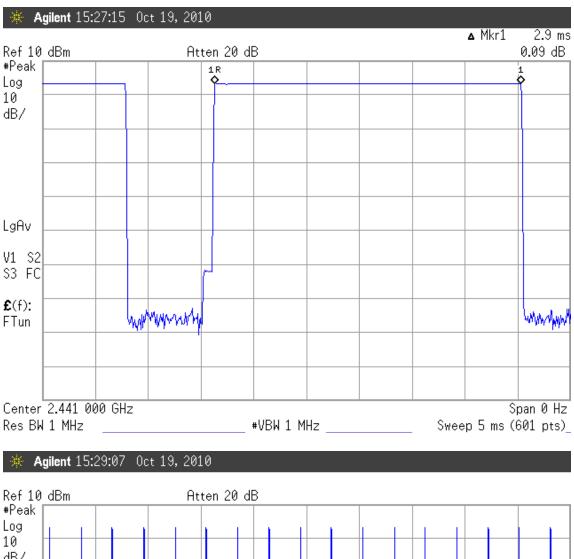
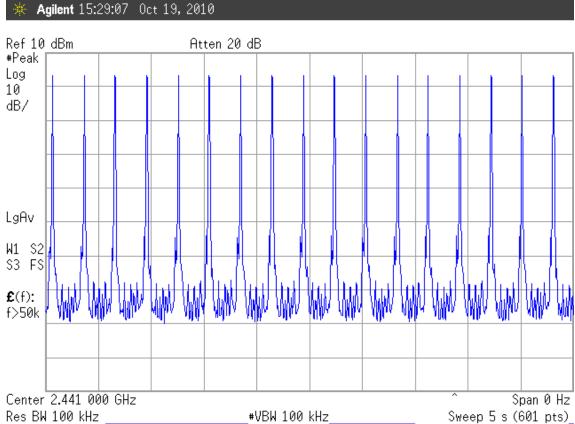


Figure 3: GFSK, 2441MHz, DH5



6.6.3. Type of Modulation: GFSK, Test Frequency: 2480MHz

Duty cycle: 79channels*0.4 seconds = 31.6 seconds

DH1: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH1 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 79 channels. So you have each channel 10.13 time per second and so for 31.6 seconds you have 320 time of appearance.

Each Tx-time per appearance is 391.7us.

10.13 time*31.6 seconds* 0.3917ms = 125.386ms (<400ms)

B. For each 5 seconds of 51 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

51 channels* 31.6 seconds / 5* 0.3917 ms = 126.252 ms (< 400 ms)

DH3: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH3 packet need 3 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 400 hops per second with 79 channels. So you have each channel 5.1 time per second and so for 31.6 seconds you have 161 time of appearance.

Each Tx-time per appearance is 1650us.

5.1 time* 31.6 seconds* 1.650 ms = 265.914 ms (<400 ms)

B. For each 5 seconds of 25 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

25 channels*31.6 seconds/5* 1.650ms = 260.70ms (<400ms)

DH5: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH5 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 266.7 hops per second with 79 channels. So you have each channel 3.37 time per second and so for 31.6 seconds you have 106 time of appearance.

Each Tx-time per appearance is 2900us.

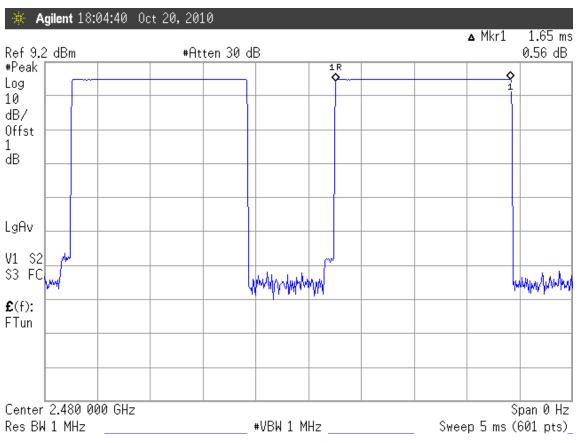
3.37 time * 31.6 seconds * 2.900 ms = 308.826 ms (< 400 ms)

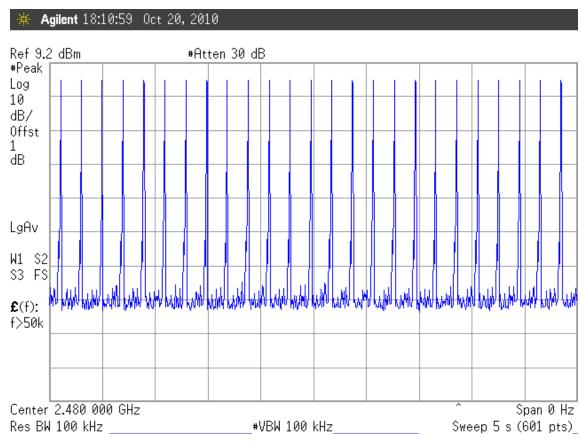
B. For each 5 seconds of 17 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

* Agilent 18:09:05 Oct 20, 2010 Δ Mkr1 391.7 **μ**s Ref 9.2 dBm 0.24 dB #Atten 30 dB #Peak Log 10 dB/ Offst 1 ďΒ LgAv V1 S2 S3 FC -44/4/~~246.24/1/~446.44 WARRY WAY CONTRACT hall who will so who £(f): FTun Center 2.480 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz _____ Sweep 5 ms (601 pts)_ * Agilent 18:10:31 Oct 20, 2010 Ref 9.2 dBm #Atten 30 dB #Peak Log 10 dB/ Offst

Figure 1: GFSK, 2480MHz, DH1

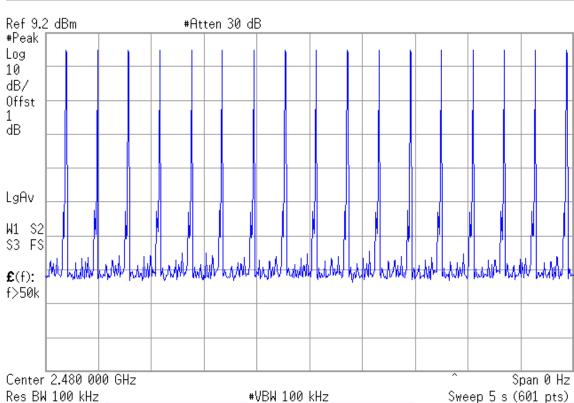
Figure 2: GFSK, 2480MHz, DH3





* Agilent 18:04:08 Oct 20, 2010 Δ Mkr1 2.9 ms Ref 9.2 dBm #Atten 30 dB 0.01 dB #Peak **Q** 1 R Log 10 dB/ Offst 1 ďΒ LgAv V1 S2 S3 FC **£**(f): FTun Center 2.480 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz _____ Sweep 5 ms (601 pts)_ **Agilent** 18:12:39 Oct 20, 2010 Ref 9.2 dBm #Atten 30 dB #Peak Log 10 dB/

Figure 3: GFSK, 2480MHz, DH5



6.6.4. Type of Modulation: 8-DPSK, Test Frequency: 2402MHz

Duty cycle: 79channels*0.4 seconds = 31.6 seconds

3DH1: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH1 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 79 channels. So you have each channel 10.13 time per second and so for 31.6 seconds you have 320 time of appearance.

Each Tx-time per appearance is 391.7us.

10.13 time*31.6 seconds* 0.3917ms = 125.386ms (<400ms)

B. For each 5 seconds of 51 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

51 channels*31.6 seconds/5* 0.3917ms = 126.252ms (<400ms)

3DH3: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH3 packet need 3 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 400 hops per second with 79 channels. So you have each channel 5.1 time per second and so for 31.6 seconds you have 161 time of appearance.

Each Tx-time per appearance is 1650us.

5.1 time * 31.6 seconds * 1.650 ms = 265.914 ms (< 400 ms)

B. For each 5 seconds of 25 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

25 channels*31.6 seconds/5* 1.650ms = 260.70ms (<400ms)

3DH5: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH5 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 266.7 hops per second with 79 channels. So you have each channel 3.37 time per second and so for 31.6 seconds you have 106 time of appearance.

Each Tx-time per appearance is 2900us.

3.37 time*31.6 seconds* 2.900ms = 308.826ms (<400ms)

B. For each 5 seconds of 17 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

* Agilent 11:58:37 Oct 19, 2010 Δ Mkr1 391.7 **μ**s -0.30 dB Ref 5 dBm Atten 20 dB #Peak 1 R Log 10 dB/ LgAv V1 S2 S3 FC AA L. DORALINA NO PROPERTO DE LA COLONIA DE LA **₩**₽₩₩₩₩₩₩ **£**(f): FTun Center 2.402 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz _____ Sweep 5 ms (601 pts)_ * Agilent 12:12:32 Oct 19, 2010 Ref 5 dBm Atten 20 dB #Peak Log 10 dB/ LgAv

V1 S2 S3 FC AA £(f):

Center 2.402 000 GHz

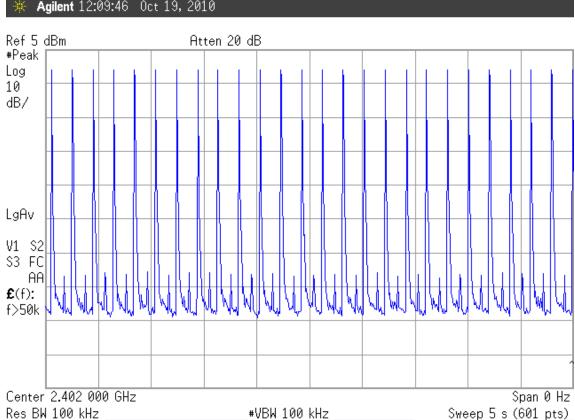
Res BW 100 kHz

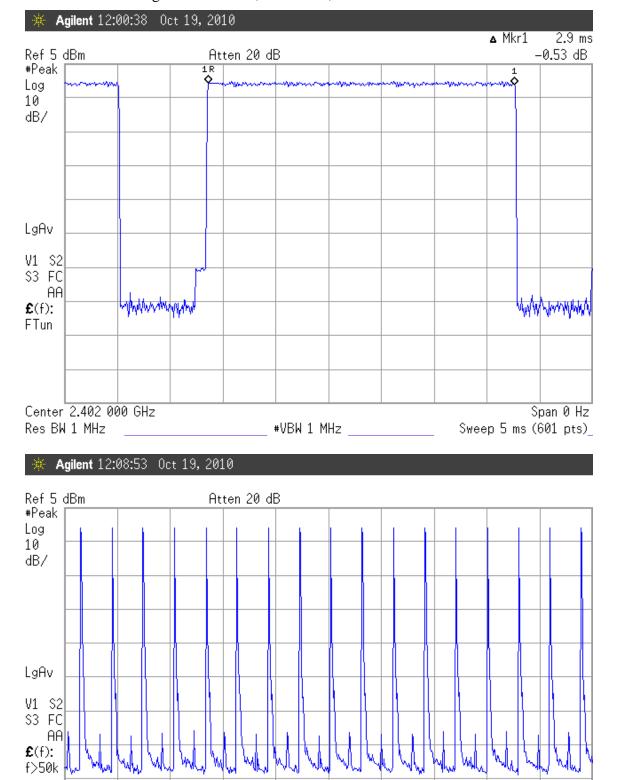
Figure 1: 8-DPSK, 2402MHz, 3DH1

Span 0 Hz

* Agilent 11:59:46 Oct 19, 2010 ▲ Mkr1 1.65 ms -0.37 dB Ref 5 dBm Atten 20 dB #Peak Log 10 dB/ LgAv V1 S2 S3 FC AA **£**(f): FTun Center 2.402 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz _____ Sweep 5 ms (601 pts)_ * Agilent 12:09:46 Oct 19, 2010 Ref 5 dBm Atten 20 dB #Peak Log 10 dB/

Figure 2: 8-DPSK, 2402MHz, 3DH3





Center 2.402 000 GHz

Res BW 100 kHz

Figure 3: 8-DPSK, 2402MHz, 3DH5

Span 0 Hz

6.6.5. Type of Modulation: 8-DPSK, Test Frequency: 2441MHz

Duty cycle: 79channels*0.4 seconds = 31.6 seconds

3DH1: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH1 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 79 channels. So you have each channel 10.13 time per second and so for 31.6 seconds you have 320 time of appearance.

Each Tx-time per appearance is 391.7us.

10.13 time*31.6 seconds* 0.3917ms = 125.386ms (<400ms)

B. For each 5 seconds of 51 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

51 channels*31.6 seconds/5* 0.3917ms = 126.252ms (<400ms)

3DH3: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH3 packet need 3 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 400 hops per second with 79 channels. So you have each channel 5.1 time per second and so for 31.6 seconds you have 161 time of appearance.

Each Tx-time per appearance is 1650us.

5.1 time* 31.6 seconds* 1.650 ms = 265.914 ms (<400 ms)

B. For each 5 seconds of 25 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

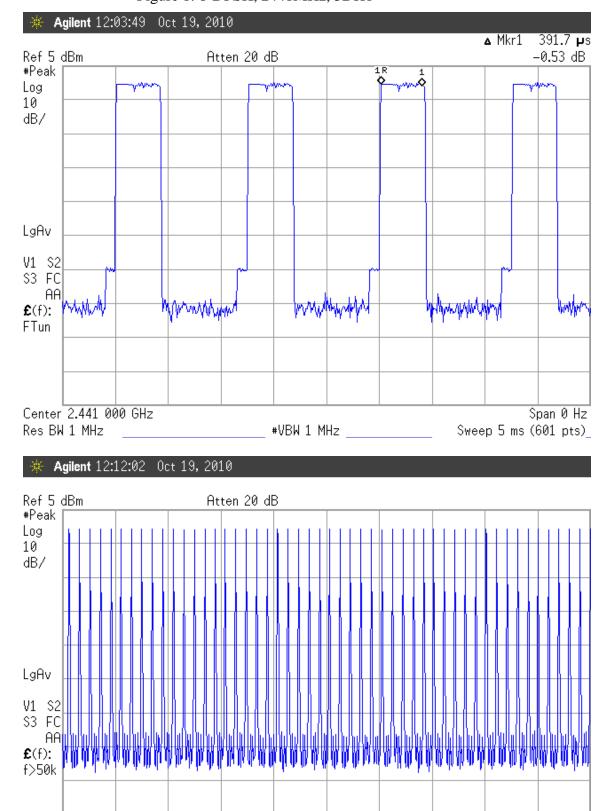
25 channels*31.6 seconds/5* 1.650ms = 260.70ms (<400ms)

3DH5: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH5 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 266.7 hops per second with 79 channels. So you have each channel 3.37 time per second and so for 31.6 seconds you have 106 time of appearance.

Each Tx-time per appearance is 2900us.

3.37 time*31.6 seconds* 2.900ms = 308.826ms (<400ms)

B. For each 5 seconds of 17 channels appearance, the longest time of occupancy for each of 31.6 seconds is:



Center 2.441 000 GHz

Res BW 100 kHz

Figure 1: 8-DPSK, 2441MHz, 3DH1

Span 0 Hz

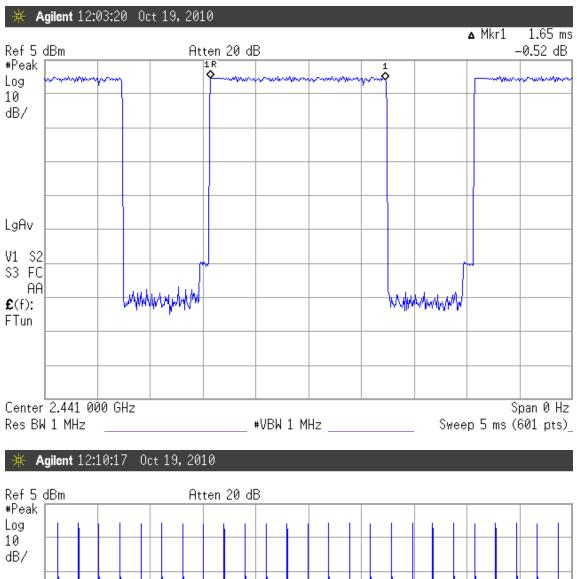
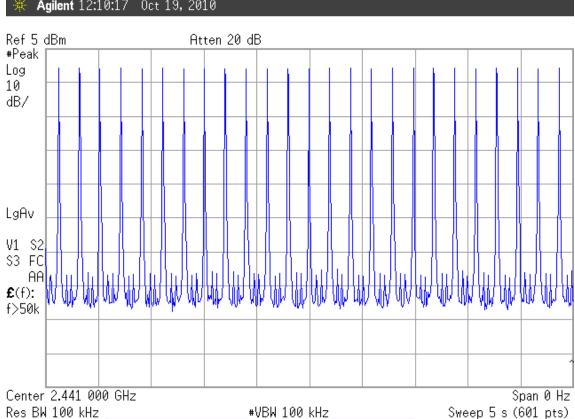
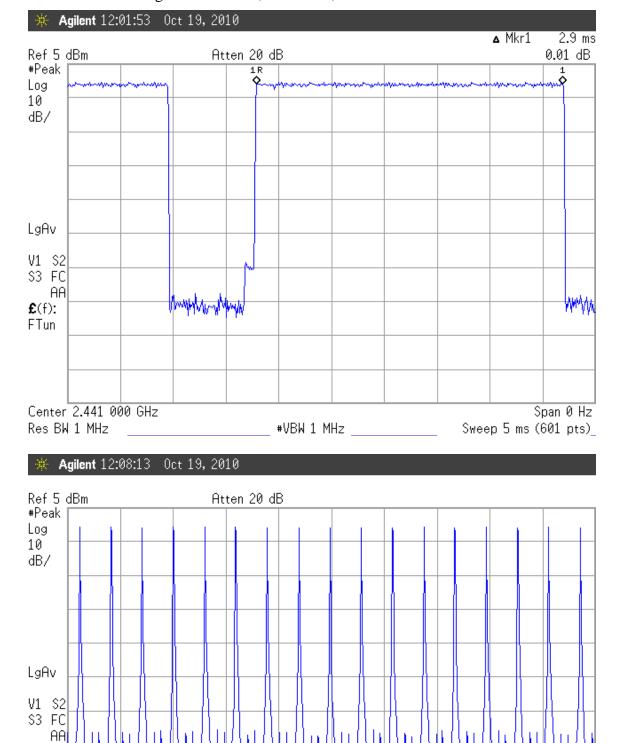


Figure 2: 8-DPSK, 2441MHz, 3DH3





#VBW 100 kHz

£(f): f>50k

Center 2.441 000 GHz

Res BW 100 kHz

Figure 3: 8-DPSK, 2441MHz, 3DH5

Span 0 Hz

Sweep 5 s (601 pts)

6.6.6. Type of Modulation: 8-DPSK, Test Frequency: 2480MHz

Duty cycle: 79channels*0.4 seconds = 31.6 seconds

3DH1: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH1 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 79 channels. So you have each channel 10.13 time per second and so for 31.6 seconds you have 320 time of appearance.

Each Tx-time per appearance is 391.7us.

10.13 time*31.6 seconds* 0.3917ms = 125.386ms (<400ms)

B. For each 5 seconds of 51 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

51 channels*31.6 seconds/5* 0.3917ms = 126.252ms (<400ms)

3DH3: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH3 packet need 3 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 400 hops per second with 79 channels. So you have each channel 5.1 time per second and so for 31.6 seconds you have 161 time of appearance.

Each Tx-time per appearance is 1650us.

5.1 time * 31.6 seconds * 1.650 ms = 265.914 ms (< 400 ms)

B. For each 5 seconds of 25 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

25 channels*31.6 seconds/5* 1.650ms = 260.70ms (<400ms)

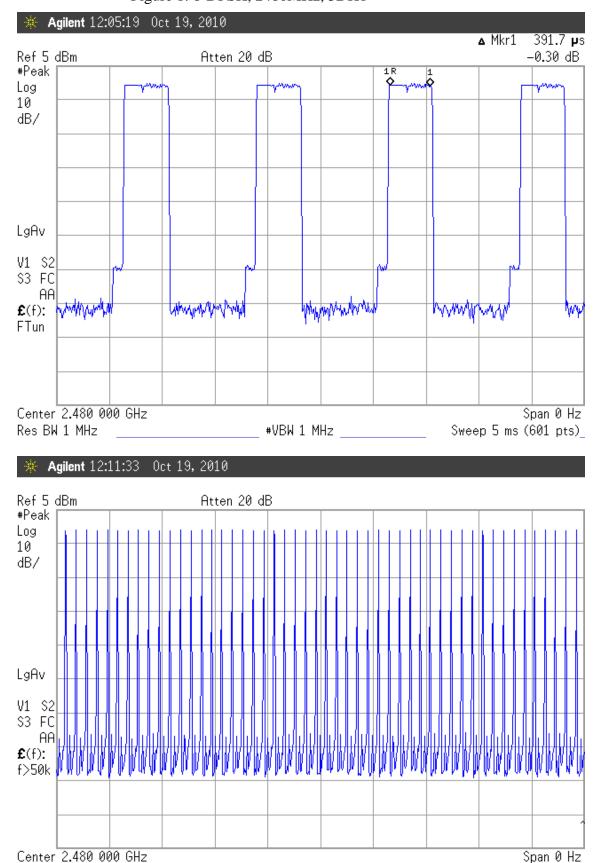
3DH5: A The system makes worst case 1600 hops per second or 1 time slot has a length of 625us with 79 channels. A DH5 packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 266.7 hops per second with 79 channels. So you have each channel 3.37 time per second and so for 31.6 seconds you have 106 time of appearance.

Each Tx-time per appearance is 2900us.

3.37 time*31.6 seconds* 2.900ms = 308.826ms (<400ms)

B. For each 5 seconds of 17 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

17 channels*31.6 seconds/5* 2.900ms = 311.576ms (<400ms)



#VBW 100 kHz

Res BW 100 kHz

Figure 1: 8-DPSK, 2480MHz, 3DH1

Sweep 5 s (601 pts)

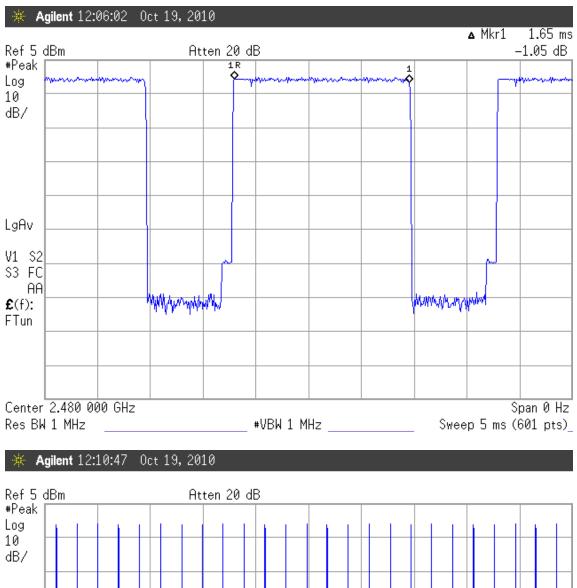
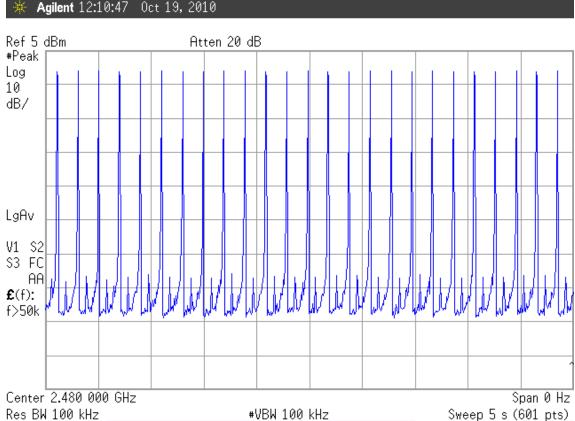
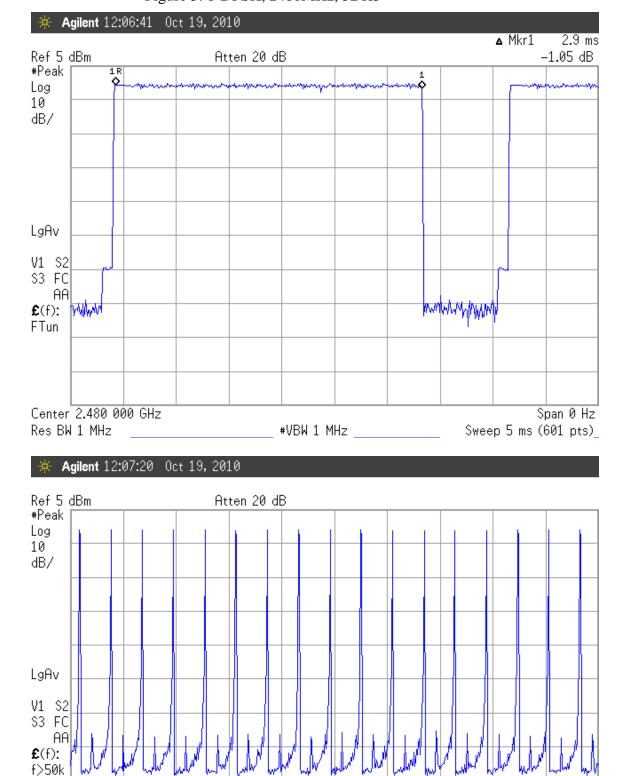


Figure 2: 8-DPSK, 2480MHz, 3DH3





#VBW 100 kHz

Center 2.480 000 GHz

Res BW 100 kHz ____

Figure 3: 8-DPSK, 2480MHz, 3DH5

Span 0 Hz

Sweep 5 s (601 pts)

7. NUMBER OF HOPPING CHANNELS MEASUREMENT

7.1. Test Equipment

The following test equipment was used during the number of hopping channels measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10'	Aug. 03, 11'

7.2. Block Diagram of Test Setup

The same as section.4.2.

7.3. Specification Limits (§15.247(a)(1)(iii))

Frequency hopping systems which use fewer than 20 hopping frequencies may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels.

7.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in section 4.4.

7.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. Sweep=Auto; Detector function=peak; Trace=Max hold The measurement guideline was according to FCC Public Notice DA 00-705.

7.6. Test Results

PASSED. All the test results are attached in next page.

[Note: Three types of modulation (8-DPSK, π /4DQPSK, GFSK) were evaluated but only two types of modulation (GFSK and 8-DPSK) were reported in this report.]

EUT: Portable Computer M/N: H1000B

Test Date: Oct. 19, 2010 Temperature: 26 °C Humidity: 55 %

7.6.1. Type of Modulation: GFSK

The number hopping channel is 79.

7.6.2. Type of Modulation: 8-DPSK

The number hopping channel is 79.

Figure 1: GFSK

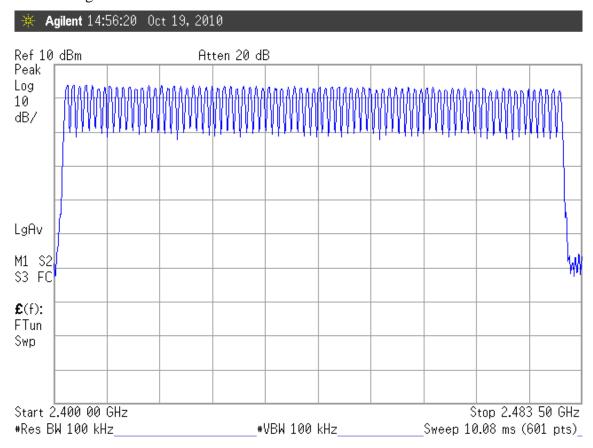
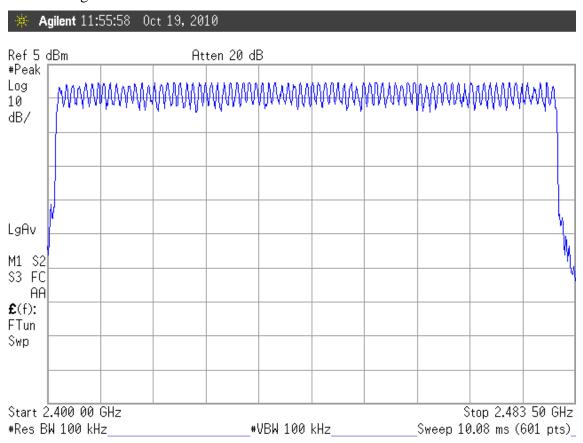


Figure 2: 8-DPSK



8. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

8.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10'	Aug. 03, 11'

8.2. Block Diagram of Test Setup

The same as section.4.2.

8.3. Specification Limits (§15.247(b)-(1))

The Limits of maximum Peak Output Power for frequency hopping systems in 2400-2483.5MHz is: 0.125Watt. (21dBm)

8.4. Operating Condition of EUT

Same as 20dB bandwidth measurement which was listed in section 4.4.

8.5. Test Procedure

The transmitter output was connected to the spectrum analyzer.

Span can encompass the waveform

RBW=1MHz

VBW=3MHz

Sweep=Auto

The measurement guideline was according to FCC Public Notice DA 00-705.

8.6. Test Results

PASSED. All the test results are listed below.

[Note: Three types of modulation (8-DPSK, π /4DQPSK, GFSK) were evaluated but only two types of modulation (8-DPSK and GFSK) were reported in this report.]

EUT: Portable Computer M/N: H1000B

Test Date : Oct. 19, 2010 Temperature : 26 $^{\circ}$ C Humidity : 55 $^{\circ}$

8.6.1.Type of Modulation: GFSK

No.	Channel	Test Frequency	Peak Output Power	Limit
1.	0	2402MHz	3.67dBm	21dBm
2.	39	2441MHz	3.39dBm	21dBm
3.	78	2480MHz	2.62dBm	21dBm

8.6.2. Type of Modulation: 8-DPSK

No.	Channel	Test Frequency	Peak Output Power	Limit
1.	0	2402MHz	0.00dBm	21dBm
2.	39	2441MHz	0.40dBm	21dBm
3.	78	2480MHz	0.34dBm	21dBm

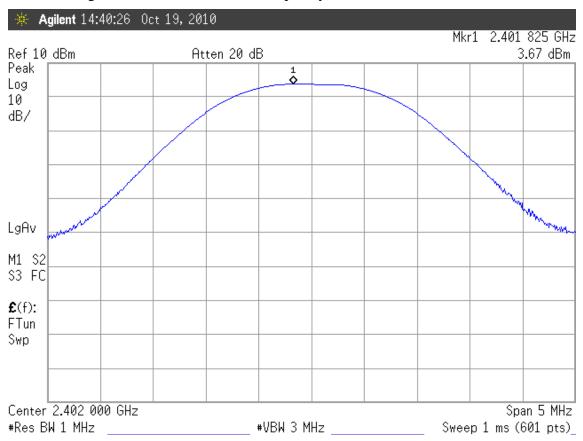
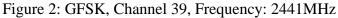
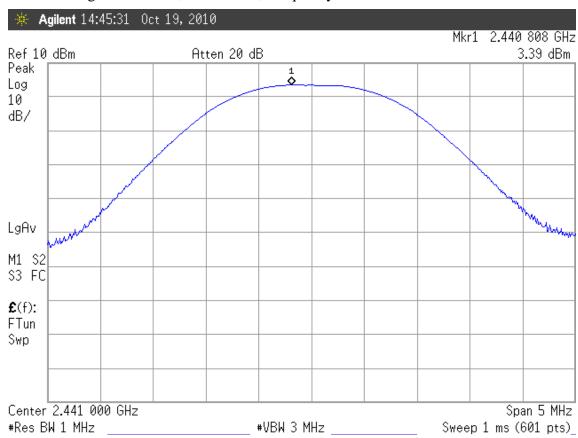


Figure 1: GFSK, Channel 0, Frequency: 2402MHz





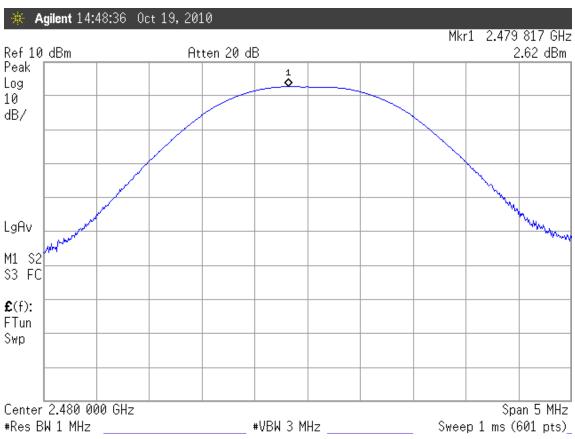
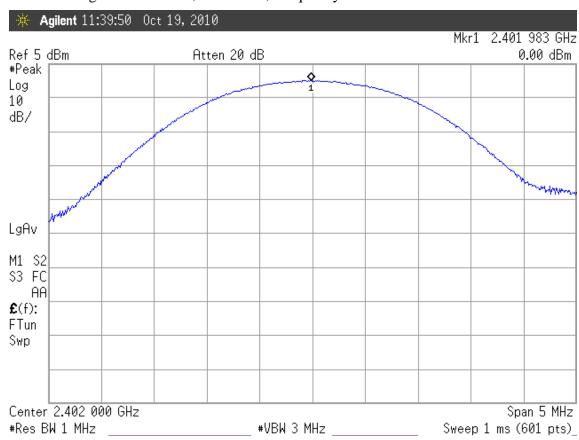


Figure 3: GFSK, Channel 78, Frequency: 2480MHz





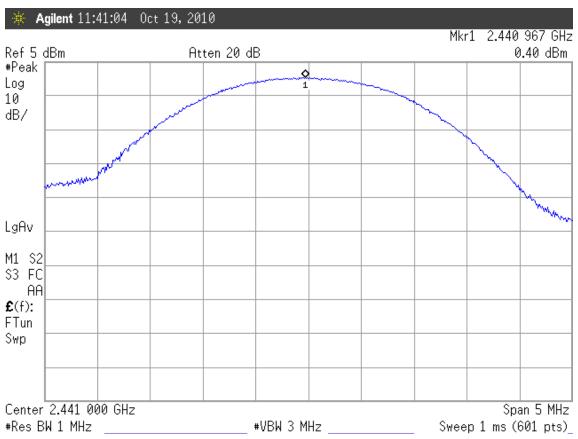
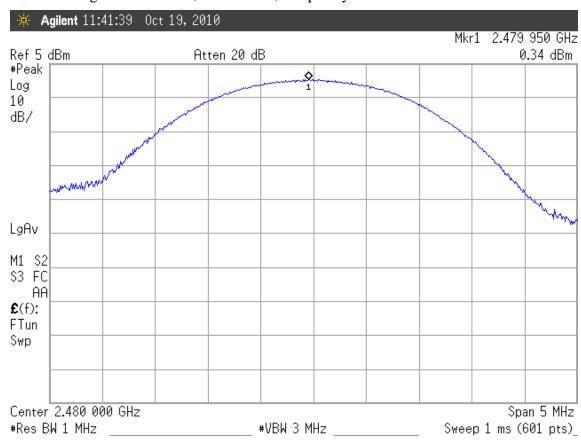


Figure 5: 8-DPSK, Channel 39, Frequency: 2441MHz





9. EMISSION LIMITATIONS MEASUREMENT

9.1. Test Equipment

The following test equipment was used during the emission limitations measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10'	Aug. 03, 11'

9.2. Block Diagram of Test Setup

The same as section.4.2.

9.3. Specification Limits (§15.247(c))

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB 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 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)).(% This test result attaching to §3.6.3)

9.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in section 4.4.

9.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with frequency range from 30MHz to 25GHz. The measurement guideline was according to FCC Public Notice DA 00-705.

9.6. Test Results

PASSED. All the test results are attached in next pages.

[Note: Three types of modulation (8-DPSK, π /4DQPSK, GFSK) were evaluated but only two types of modulation (GFSK and 8-DPSK) were reported in this report.]

EUT: Portable Computer M/N: H1000B

Test Date: Oct. 28, 2010 Temperature: 24°C Humidity: 58%

9.6.1. Type of Modulation: GFSK

- 1. 2402MHz: During 30MHz~25GHz bandwidth. In the 3.19GHz, the -53.15dBm is max value that is lower than 20dB of primary channel.
- 2. 2441MHz: During 30MHz~25GHz bandwidth. In the 3.28GHz, the -56.47dBm is max value that is lower than 20dB of primary channel.
- 3. 2480MHz: During 30MHz~25GHz bandwidth. In the 1.65GHz, the -56.87dBm is max value that is lower than 20dB of primary channel.

Note: The peak above the limit line is the carrier frequency.

- 9.6.2. Type of Modulation: 8-DPSK
 - 1. 2402MHz: During 30MHz~25GHz bandwidth. In the 1.61GHz, the -54.79dBm is max value that is lower than 20dB of primary channel.
 - 2. 2441MHz: During 30MHz~25GHz bandwidth. In the 1.61GHz, the -55.34dBm is max value that is lower than 20dB of primary channel.
 - 3. 2480MHz: During 30MHz~25GHz bandwidth. In the 1.65GHz, the -55.32dBm is max value that is lower than 20dB of primary channel.

Note: The peak above the limit line is the carrier frequency.

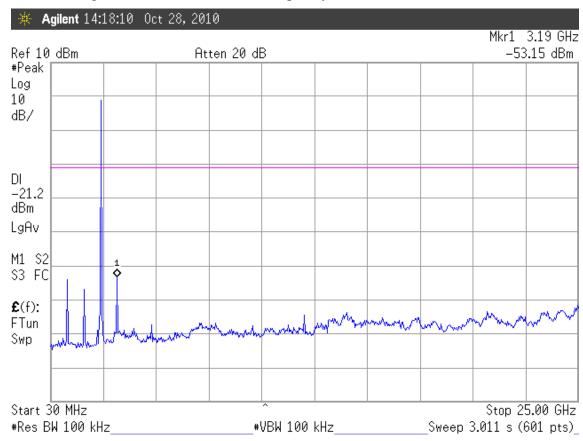
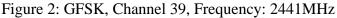
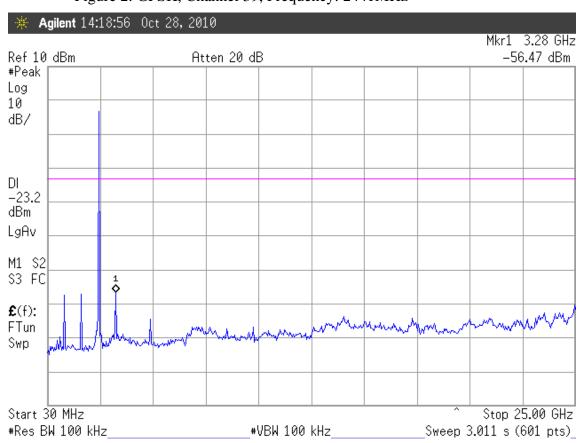


Figure 1: GFSK, Channel 0, Frequency: 2402MHz

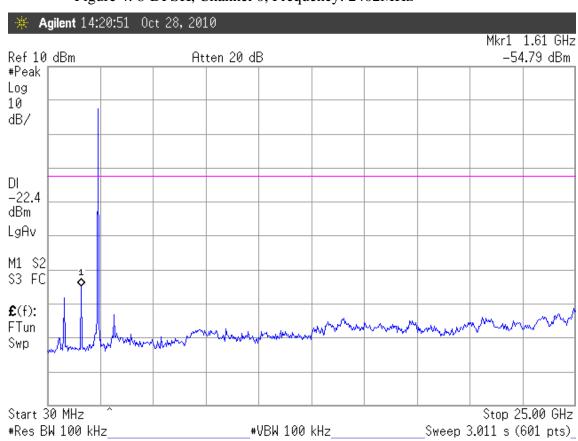




* Agilent 14:19:33 Oct 28, 2010 Mkr1 1.65 GHz -56.87 dBm Ref 10 dBm Atten 20 dB #Peak Log 10 dB/ DI -21.2 dBm LgAv M1 S2 S3 FC £(f): FTun Swp Start 30 MHz Stop 25.00 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 3.011 s (601 pts)_

Figure 3: GFSK, Channel 78, Frequency: 2480MHz





Agilent 14:21:26 Oct 28, 2010 Mkr1 1.61 GHz Ref 10 dBm Atten 20 dB -55.34 dBm #Peak Log 10 dB/ DI -24.2 dBm LgAv M1 S2 S3 FC £(f): FTun Swp Start 30 MHz Stop 25.00 GHz Sweep 3.011 s (601 pts)_ #Res BW 100 kHz #VBW 100 kHz

Figure 5: 8-DPSK, Channel 39, Frequency: 2441MHz





10.BAND EDGES MEASUREMENT

10.1.Test Equipment

The following test equipment was used during the band edges measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10'	Aug. 03, 11'

10.2.Block Diagram of Test Setup

The same as section.4.2.

10.3. Specification Limits (§15.247(c))

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB 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 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)). (** This test result attaching to §3.6.3)

10.4. Operating Condition of EUT

Same as 20dB bandwidth measurement which was listed in section 4.4.

10.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.

The measurement guideline was according to FCC Public Notice DA 00-705.

10.6.Test Results

PASSED. The testing data was attached in the next pages.

[Note: Three types of modulation (8-DPSK, π /4DQPSK, GFSK) were evaluated but only two types of modulation (GFSK and 8-DPSK) were reported in this report.]

EUT: Portable Computer M/N: H1000B

Test Date : Oct. 19, 2010 Temperature : 26 °C Humidity : 55 %

10.6.1. Type of Modulation: GFSK

- 1. Upper Band edge : The highest emission level is -47.07dBm on 2.39992GHz \circ
- 2. Below Band edge: The highest emission level is -47.90dBm on 2.48358GHz $^{\circ}$

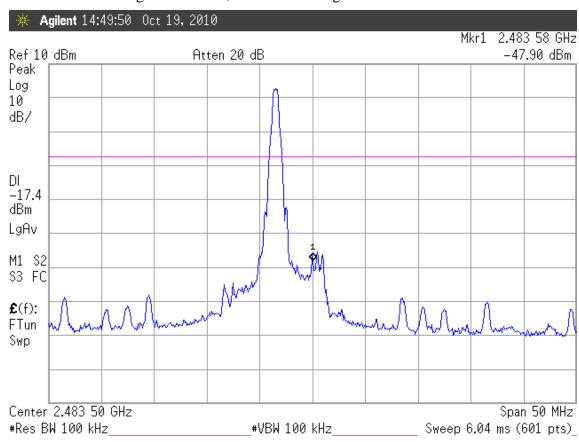
10.6.2. Type of Modulation: 8-DPSK

- 1. Upper Band edge : The highest emission level is -49.02dBm on 2.39992GHz $^{\circ}$
- 2. Below Band edge: The highest emission level is -57.41dBm on 2.48358GHz $^{\circ}$

* Agilent 14:43:16 Oct 19, 2010 Mkr1 2.399 92 GHz -47.07 dBm Ref 10 dBm Atten 20 dB Peak Log 10 dB/ DΙ -16.3 dBm. LgAv M1 S2 S3 FC £(f): FTun Swp Center 2.400 00 GHz Span 50 MHz #Res BW 100 kHz #VBW 100 kHz Sweep 6.04 ms (601 pts)_

Figure 1: GFSK, Upper Band edge

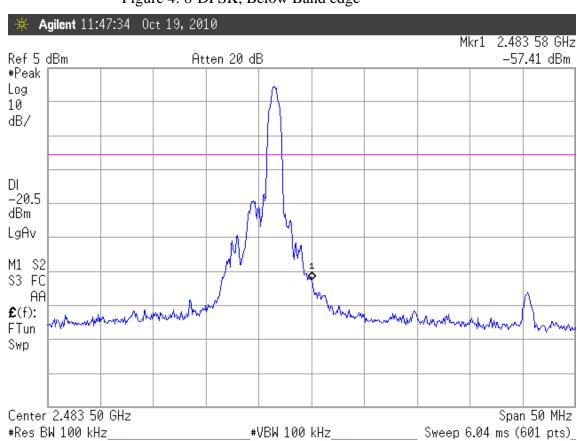




Agilent 11:46:38 Oct 19, 2010 Mkr1 2.399 92 GHz -49.02 dBm Ref 5 dBm Atten 20 dB #Peak Log 10 dB/ DI -20.7 dBm. LgAv M1 S2 S3 FC AΑ **£**(f): FTun Swp Span 50 MHz Center 2.400 00 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 6.04 ms (601 pts)_

Figure 3: 8-DPSK, Upper Band edge





11.DEVIATION TO TEST SPECIFICATIONS

[NONE]