

APPLICATION FOR CERTIFICATION

On Behalf of
Hewlett-Packard Company
Personal Digital Assistant or Pocket PC
Model No. : HSTNH-L12C-BT
Brand: HP
FCC ID : BEJPDA-L12C-BT

Prepared for : Hewlett-Packard Company
20555 SH 249, HOUSTON, TX 77070-2698, USA

Prepared by : Audix Corporation
Technical Division EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou,
Taipei County, Taiwan, R.O.C.

Tel : (02) 2609-9301, 2609-2133
Fax: (02) 2609-9303

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APPENDIX I (Restricted Bands (VBW=3KHz) Measurement Result)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Personal Digital Assistant or Pocket PC
Model Number	:	HSTNH-L12C-BT
FCC ID	:	BEJPDA-L12C-BT
Brand Name	:	HP
Applicant	:	Hewlett-Packard Company 20555 SH 249, HOUSTON, TX 77070-2698, U.S.A.
Manufacturer #1	:	LG Electronics Inc. 19-1, Cheongho-Ri, Jinwuy-Myeon, Pyungtaek-Si, Gyeonggi-Do, 451-713, Korea.
Manufacturer #2	:	LG Electronics (Kunshan) Computer Co., Ltd. Qianjindong Rd., Economic & Technical Development District, Kunshan City, Jiangsu Province 215334, China.
Bluetooth Card	:	BROADCOM, M/N BCM2045
Fundamental Range	:	2400MHz ~ 2483.5MHz
Channel Number	:	79
Radio Technology	:	FHSS Modulation
Antenna Gain	:	Bluetooth: -1.8dBi
Data Sync Cable (USB Type)	:	(1)Dong Myung, Shielded, Detachable, 1.2m (2)Phihong, Shielded, Detachable, 1.2m
Rechargeable Battery Pack (Lithium-Ion Battery)	:	HP, M/N: HSTNH-L12B 3.7V 1700mAh
Earphone	:	Non-Shielded, Detachable, 1.4m
LCD panel	:	Toppoly, M/N: TD035TTEA2

Switching Power Supply : Phihong, M/N: PSB05R-050Q
 (2 Pin) Input: 100-240V~ 200mA, 50-60Hz, 12-17VA
 Output: 5V, 1A, BSMI ID: R33084

Date of Receipt of Sample : Jun. 19, 2006

Date of Test : Jun. 19 ~ 21, 2006

1.2. Tested Supporting System Details

1.2.1. NOTEBOOK PC

Model Number : PP2130
 Serial Number : 5Y32KSQZ40ME
 BSMI ID : 3912A556
 FCC ID : By DoC
 Brand : Compaq Computer Corporation
 Manufacturer : LG Electronics Ltd.
 AC Adapter : Compaq, M/N PPP009L
 (LITE-ON, M/N PA-1650-02C)
 Non-Shielded, Undetachable, 1.8m,
 Power Cord : Non-Shielded, Detachable, 1.8m

1.2.2. 15" LCD MONITOR

Model Number : D5063
 Serial Number : CN206A6578
 FCC ID : By DoC
 BSMI ID : R33037
 Manufacturer : Top Victory Electronics (Fujian) Co., Ltd.
 Data Cable (D-Sub) : Shielded, Detachable, 1.8m
 Bonded two ferrite cores
 AC Adapter : Delta, M/N ADP-40TB
 BSMI ID 3892D142
 Cord: Shielded, Undetachable, 1.8m
 Bonded a ferrite core
 Power Cord : Non-Shielded, Detachable, 1.8m

1.2.3. DOT MATRIX PRINTER

Model Number : ACJ5Z6KX-P2135
 Serial Number : 8DMCNC02203
 FCC ID : ACJ5Z6KX-P2135
 BSMI ID : 3872A371
 Manufacturer : Matsushita (Brand: Panasonic)
 Data Cable : Shielded, Detachable, 1.5m
 Power Cord : Non-Shielded, Undetachable, 1.8m

1.2.4. USB MOUSE

Model Number : M-UV69a
 Serial Number : HCB60403038
 FCC ID : By DoC
 BSMI ID : T4A126
 Manufacturer : LOGITECH (Brand: ASUS)
 Data Cable : Non-Shielded, Undetachable, 1.8m

1.2.5. GPS ANTENNA

Model Number : AT-65
 Serial Number : A0036352
 FCC ID : By DoC
 Manufacturer : Global Sat
 Data Cable : Shielded, Detachable, 5.0m

1.3. Description of Test Facility

Name of Firm : **Audix Corporation**
Technical Division EMC Department
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei County 24443, Taiwan, R.O.C.

Test Location & Facility : **No. 3 Shielded Room**
 (C3/Semi-AC) No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei County 24443, Taiwan, R.O.C.

Semi-Anechoic Chamber
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei County 24443, Taiwan, R.O.C.

May 15, 2006 File on
 Federal Communication Commission
 Registration Number: 90993

NVLAP Lab. Code : 200077-0
 (NVLAP is a NATA accredited body under Mutual Recognition Agreement)

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	$\pm 1.73\text{dB}$
Radiation Test (Distance: 10m)	30MHz~300MHz	$\pm 2.99\text{dB}$
	300MHz~1000MHz	$\pm 2.73\text{dB}$
Radiation Test (Distance: 3m)	30MHz~300MHz	$\pm 2.91\text{dB}$
	300MHz~1000MHz	$\pm 2.94\text{dB}$
	Above 1GHz	$\pm 5.02\text{dB}$

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
Maximum peak Output power	$\pm 0.52\text{dBm}$
Emission Limitations	$\pm 0.13\text{dB}$
Band Edges	$\pm 0.13\text{dB}$
Carrier Frequency Separation	$\pm 1\text{CH}$
20dB Bandwidth	$\pm 0.2\text{kHz}$
Time Of Occupancy	$\pm 0.03\text{sec}$

2. CONDUCTED EMISSION MEASUREMENT

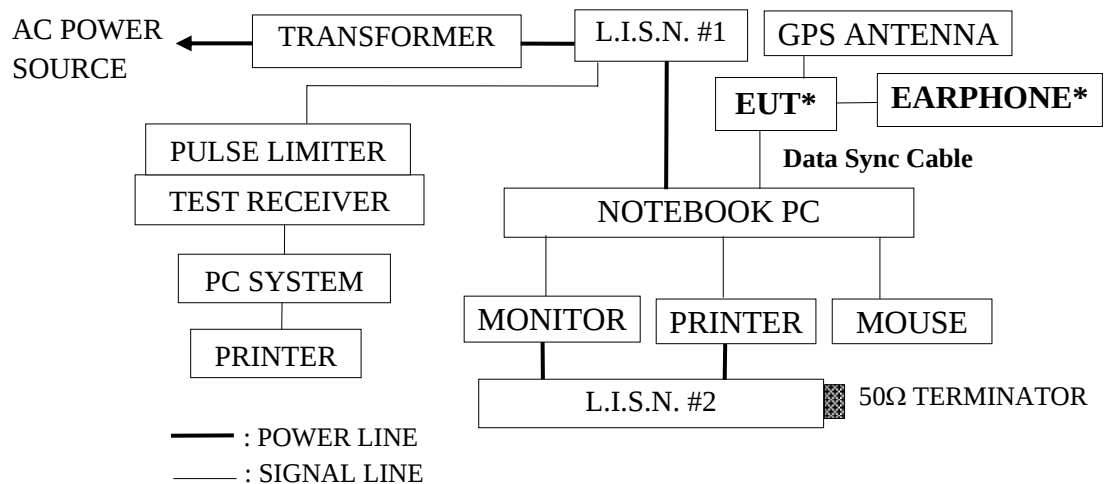
2.1. Test Equipment

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

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	Rohde & Schwarz	ESCS 30	100039	Jun. 22, 05'	Jun. 21, 06'
2.	L.I.S.N. # 1	Kyoritsu	KNW-407	8-1370-9	Jun. 06, 06'	Jun. 05, 07'
3.	L.I.S.N. # 2	Kyoritsu	KNW-407	8-1370-10	Jun. 06, 06'	Jun. 05, 07'
4.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100041	Mar. 11, 06'	Mar. 10, 07'

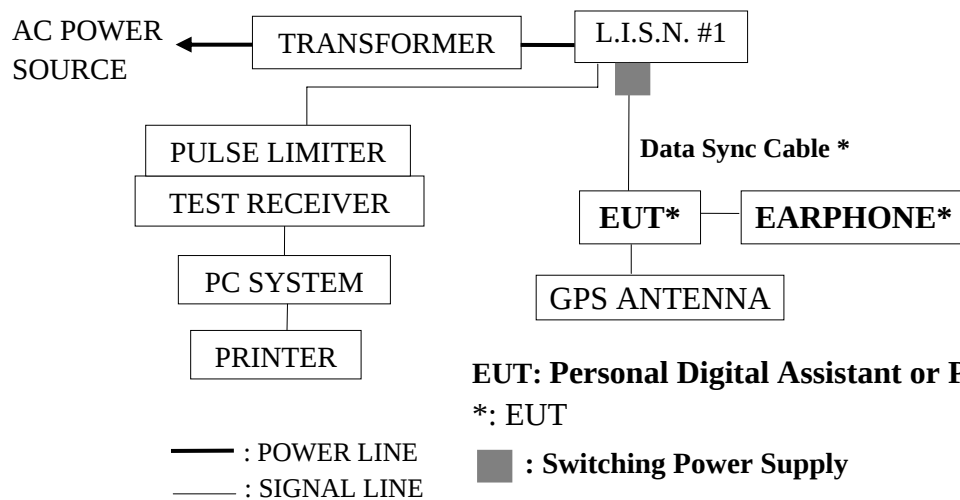
2.2. Block Diagram of Test Setup

2.2.1. Test Mode: Link Notebook PC



EUT: Personal Digital Assistant or Pocket PC *: EUT

2.2.2. Test Mode: AC Charge



EUT: Personal Digital Assistant or Pocket PC

*: EUT

■ : Switching Power Supply

2.3. Conducted Emission Limits (§15.207)

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

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. Setup the EUT and simulator as shown on 2.2.

2.4.2. Turn on the power of all equipment.

2.4.3. The Personal Digital Assistant or Pocket PC (EUT) running test program “EMI_TEST” to exercise system function.

2.4.4. The “H” characters were displayed on the screen of EUT and the Personal Digital Assistant or Pocket PC (EUT) was communicated with the notebook PC through the program “Active Syne” at the same time during the testing.

2.4.5. AC Charge + Transmitting: The Personal Digital Assistant or Pocket PC (EUT) was in transmitting and charge mode during the testing.

2.4.6. The Personal Digital Assistant or Pocket PC (EUT) sent sound to the earphone.

2.4.7. The Personal Digital Assistant or Pocket PC (EUT) through GPS antenna receive GPS signal during the testing.

2.4.8. The other peripheral devices were driven and operated in turn during all testing.

2.5. Test Procedure

The EUT was put on table which was above the ground by 80cm and its AC Adapter or Notebook PC's AC adapter connected to the power mains through a line impedance stabilization network (L.I.S.N. #1) and the other peripheral devices power cord were connected to the power mains through a line impedance stabilization network (L.I.S.N. #2) 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 during conducted measurement.

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.)

EUT with following test modes were performed during this section testing and all the test results are attached in next pages.

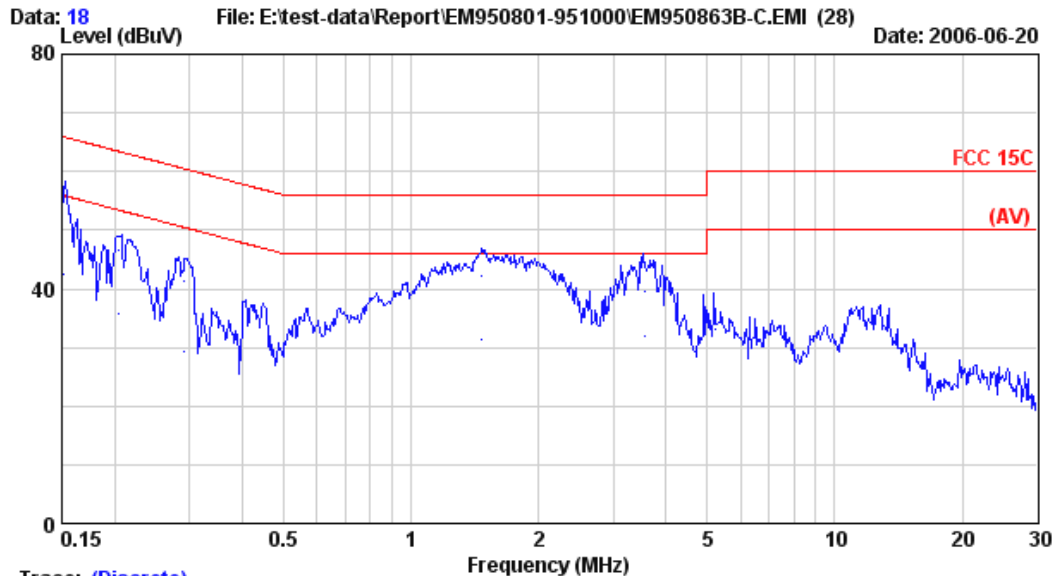
EUT : Personal Digital Assistant or Pocket PC M/N : HSTNH-L12C-BT

Test Date : Jun. 20, 2006 Temperature : 26 Humidity : 59%

No.	Test Voltage	Test Mode	Data Sync Cable (USB Type)	Reference Test Data No.	
				Neutral	Line
1.	AC 120V/60Hz (Via Switching Power Supply)	Link	Dong Myung	# 18	# 17
2.		Notebook PC	Phihong	# 20	# 19
3.		AC Charge	Phihong	# 16	# 15



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

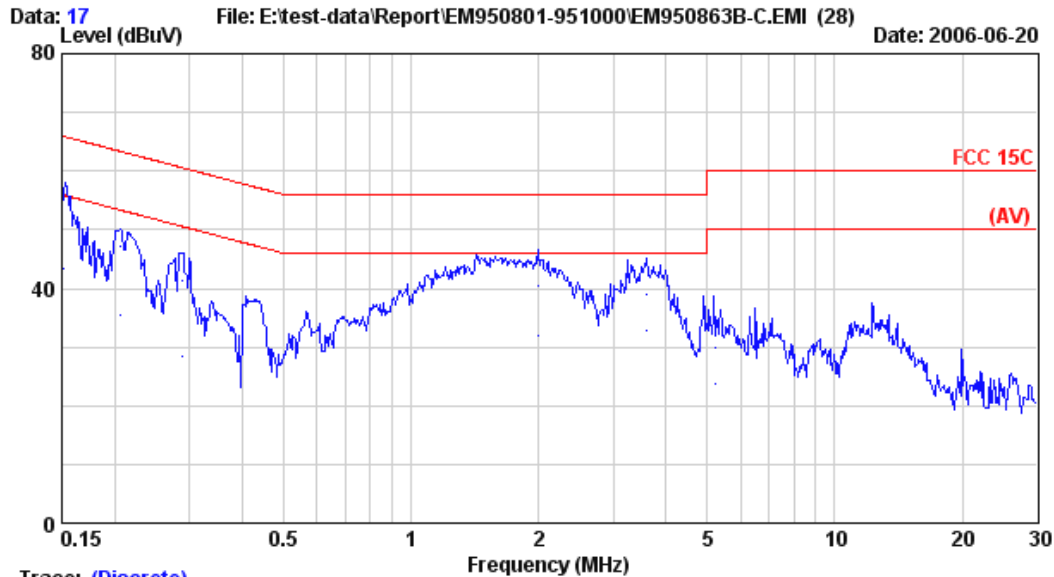
Site : NO.3 Shielded Room Data : 18
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC 15C
Env. / Ins. : 26°C/59% ESCS30 Engineer: Joe_Hsieh
EUT : Personal Digital Assistant or Pocket PC
Power Rating : 120Vac/60Hz M/N:HSTNH-L12C-BT
Test Mode : Link PC (W/Dong Myung USB Cable)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.151	0.30	0.20	54.92	55.42	65.93	10.51	QP
2	0.151	0.30	0.20	42.10	42.60	55.93	13.33	AVERAGE
3	0.204	0.20	0.20	46.32	46.72	63.45	16.74	QP
4	0.204	0.20	0.20	35.42	35.82	53.45	17.64	AVERAGE
5	0.290	0.15	0.20	41.07	41.42	60.52	19.10	QP
6	0.290	0.15	0.20	28.82	29.17	50.52	21.35	AVERAGE
7	1.463	0.10	0.40	41.73	42.23	56.00	13.77	QP
8	1.463	0.10	0.40	30.81	31.31	46.00	14.69	AVERAGE
9	3.559	0.10	0.40	39.05	39.55	56.00	16.45	QP
10	3.559	0.10	0.40	31.38	31.88	46.00	14.12	AVERAGE
11	5.204	0.10	0.60	34.87	35.57	60.00	24.43	QP
12	5.204	0.10	0.60	32.33	33.03	50.00	16.97	AVERAGE

Remarks: 1.Emission Level= LISN 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.



AUDIX Corp. EMC Laboratory
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Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

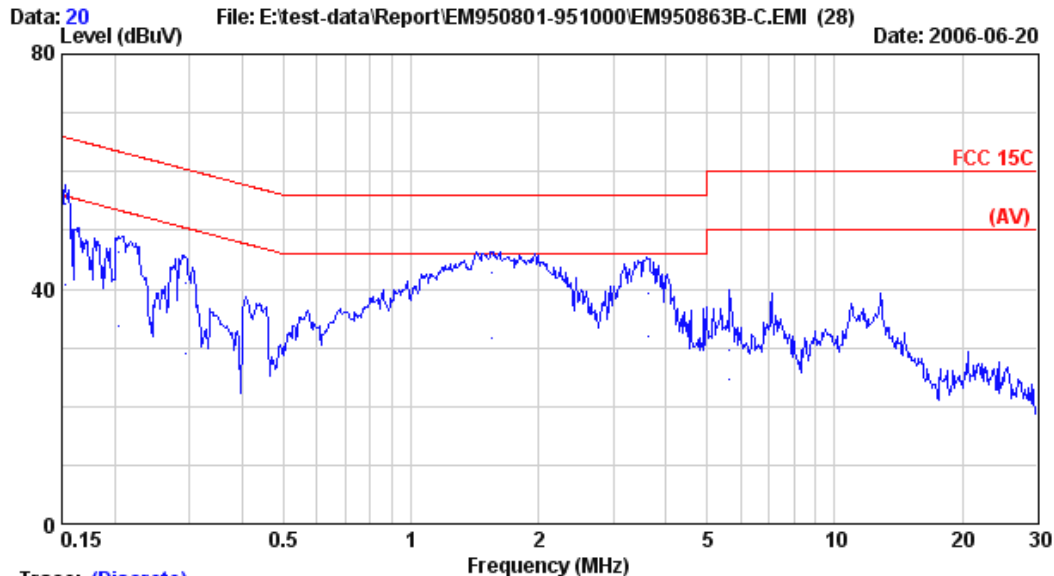
Site : NO.3 Shielded Room Data : 17
Condition : KNW-407 Phase : LINE
Limit : FCC 15C
Env. / Ins. : 26°C/59% ESCS30 Engineer: Joe_Hsieh
EUT : Personal Digital Assistant or Pocket PC
Power Rating : 120Vac/60Hz M/N:HSTNH-L12C-BT
Test Mode : Link PC (W/Dong Myung USB Cable)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.151	0.30	0.20	55.57	56.07	65.93	9.86	QP
2	0.151	0.30	0.20	42.91	43.41	55.93	12.52	AVERAGE
3	0.206	0.20	0.20	46.70	47.10	63.35	16.26	QP
4	0.206	0.20	0.20	35.19	35.59	53.35	17.77	AVERAGE
5	0.288	0.15	0.20	40.87	41.22	60.59	19.37	QP
6	0.288	0.15	0.20	28.08	28.43	50.59	22.16	AVERAGE
7	2.005	0.10	0.40	40.08	40.58	56.00	15.42	QP
8	2.005	0.10	0.40	31.37	31.87	46.00	14.13	AVERAGE
9	3.604	0.10	0.40	38.58	39.08	56.00	16.92	QP
10	3.604	0.10	0.40	32.27	32.77	46.00	13.23	AVERAGE
11	5.211	0.10	0.60	29.12	29.82	60.00	30.18	QP
12	5.211	0.10	0.60	22.92	23.62	50.00	26.38	AVERAGE

Remarks: 1.Emission Level= LISN 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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 Tel:02-26092133 Fax:02-26099303
 Email:ttemc@ttemc.com.tw



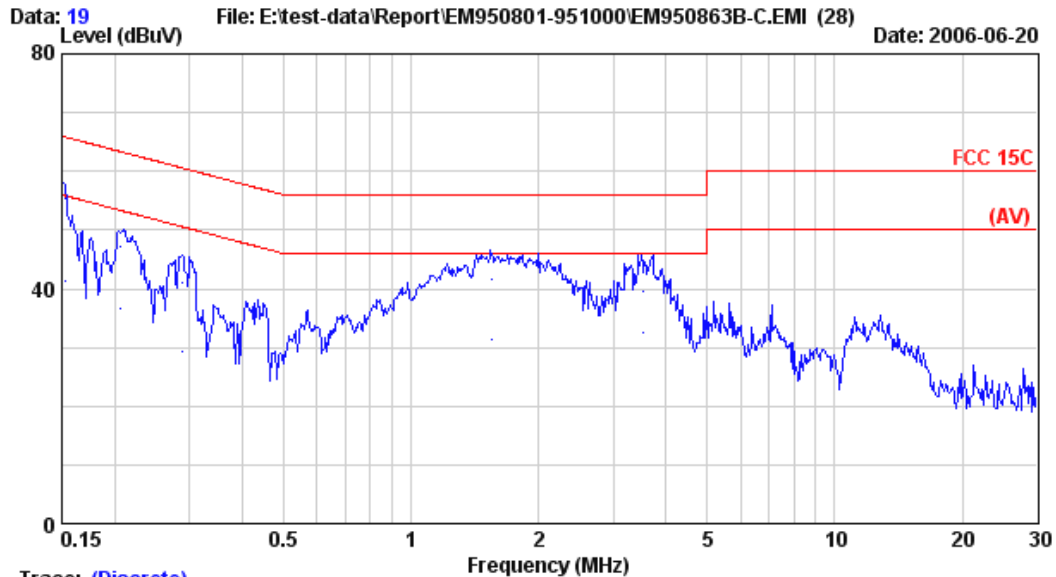
Site : NO.3 Shielded Room Data : 20
 Condition : KNW-407 Phase : NEUTRAL
 Limit : FCC 15C
 Env. / Ins. : 26°C/59% ESCS30 Engineer: Joe_Hsieh
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : 120Vac/60Hz M/N:HSTNH-L12C-BT
 Test Mode : Link PC (W/Phihong USB Cable)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.153	0.29	0.20	54.08	54.57	65.86	11.29	QP
2	0.153	0.29	0.20	40.23	40.72	55.86	15.14	AVERAGE
3	0.205	0.20	0.20	45.82	46.22	63.41	17.19	QP
4	0.205	0.20	0.20	33.17	33.57	53.41	19.84	AVERAGE
5	0.294	0.14	0.20	40.77	41.11	60.41	19.30	QP
6	0.294	0.14	0.20	28.56	28.90	50.41	21.51	AVERAGE
7	1.554	0.10	0.40	42.35	42.85	56.00	13.15	QP
8	1.554	0.10	0.40	31.01	31.51	46.00	14.49	AVERAGE
9	3.616	0.10	0.40	38.88	39.38	56.00	16.62	QP
10	3.616	0.10	0.40	31.35	31.85	46.00	14.15	AVERAGE
11	5.649	0.10	0.60	28.80	29.50	60.00	30.50	QP
12	5.649	0.10	0.60	23.80	24.50	50.00	25.50	AVERAGE

Remarks: 1.Emission Level= LISN 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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Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

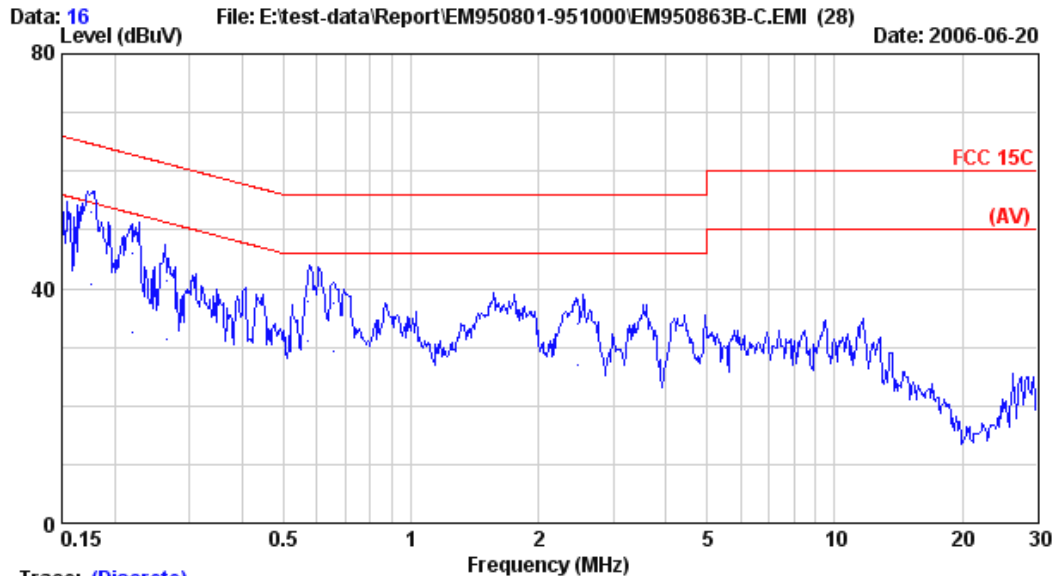
Site : NO.3 Shielded Room Data : 19
Condition : KMW-407 Phase : LINE
Limit : FCC 15C
Env. / Ins. : 26°C/59% ESCS30 Engineer: Joe_Hsieh
EUT : Personal Digital Assistant or Pocket PC
Power Rating : 120Vac/60Hz M/N:HSTNH-L12C-BT
Test Mode : Link PC (W/Phihong USB Cable)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.153	0.29	0.20	54.76	55.25	65.86	10.61	QP
2	0.153	0.29	0.20	40.87	41.36	55.86	14.50	AVERAGE
3	0.206	0.20	0.20	46.72	47.12	63.38	16.26	QP
4	0.206	0.20	0.20	36.15	36.55	53.38	16.83	AVERAGE
5	0.288	0.15	0.20	40.79	41.14	60.59	19.45	QP
6	0.288	0.15	0.20	28.91	29.26	50.59	21.33	AVERAGE
7	1.545	0.10	0.40	41.15	41.65	56.00	14.35	QP
8	1.545	0.10	0.40	30.75	31.25	46.00	14.75	AVERAGE
9	3.520	0.10	0.40	39.08	39.58	56.00	16.42	QP
10	3.520	0.10	0.40	32.08	32.58	46.00	13.42	AVERAGE
11	5.203	0.10	0.60	34.79	35.49	60.00	24.51	QP
12	5.203	0.10	0.60	32.59	33.29	50.00	16.71	AVERAGE

Remarks: 1.Emission Level= LISN 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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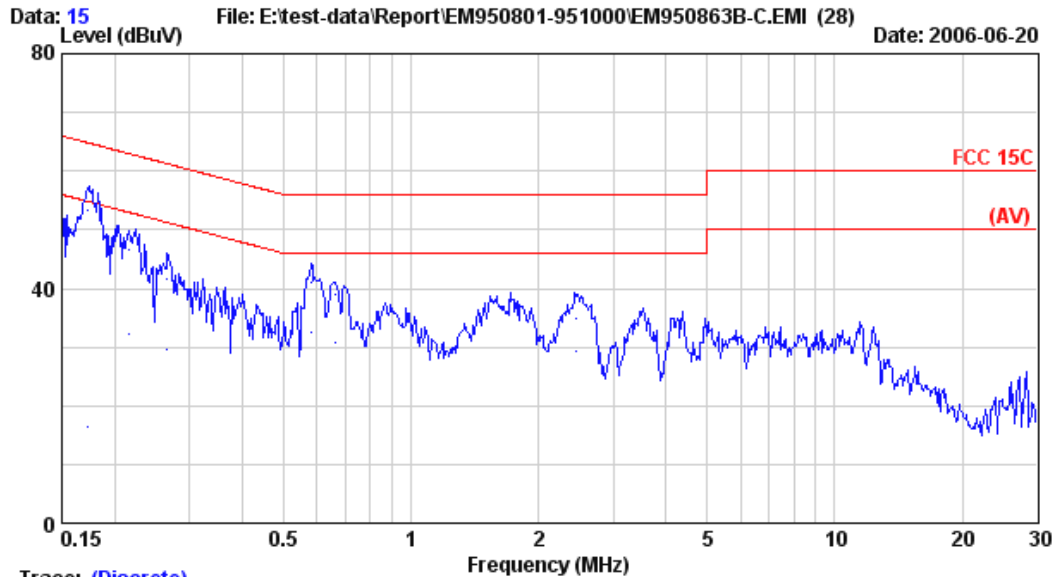
Site : NO.3 Shielded Room Data : 16
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC 15C
Env. / Ins. : 26°C/59% ESCS30 Engineer: Joe_Hsieh
EUT : Personal Digital Assistant or Pocket PC
Power Rating : 120Vac/60Hz M/N:HSTNH-L12C-BT
Test Mode : AC charger (W/Phihong USB Cable)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.177	0.24	0.20	52.60	53.04	64.65	11.61	QP
2	0.177	0.24	0.20	40.43	40.87	54.65	13.78	AVERAGE
3	0.220	0.19	0.20	45.72	46.11	62.83	16.73	QP
4	0.220	0.19	0.20	32.23	32.62	52.83	20.22	AVERAGE
5	0.265	0.16	0.20	40.97	41.33	61.27	19.94	QP
6	0.265	0.16	0.20	31.01	31.37	51.27	19.90	AVERAGE
7	0.570	0.10	0.20	37.38	37.68	56.00	18.32	QP
8	0.570	0.10	0.20	30.86	31.16	46.00	14.84	AVERAGE
9	0.658	0.10	0.20	37.29	37.59	56.00	18.41	QP
10	0.658	0.10	0.20	29.00	29.30	46.00	16.70	AVERAGE
11	2.467	0.10	0.40	33.36	33.86	56.00	22.14	QP
12	2.467	0.10	0.40	26.43	26.93	46.00	19.07	AVERAGE

Remarks: 1.Emission Level= LISN 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.



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



Site : NO.3 Shielded Room Data : 15
Condition : KNW-407 Phase : LINE
Limit : FCC 15C
Env. / Ins. : 26°C/59% ESCS30 Engineer: Joe_Hsieh
EUT : Personal Digital Assistant or Pocket PC
Power Rating : 120Vac/60Hz M/N:HSTNH-L12C-BT
Test Mode : AC charger (W/Phihong USB Cable)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.173	0.25	0.20	52.84	53.29	64.82	11.53	QP
2	0.173	0.25	0.20	16.10	16.55	54.82	38.27	AVERAGE
3	0.215	0.19	0.20	46.31	46.70	63.00	16.30	QP
4	0.215	0.19	0.20	31.95	32.34	53.00	20.66	AVERAGE
5	0.266	0.16	0.20	41.35	41.71	61.23	19.52	QP
6	0.266	0.16	0.20	29.25	29.61	51.23	21.62	AVERAGE
7	0.584	0.10	0.20	40.71	41.01	56.00	14.99	QP
8	0.584	0.10	0.20	32.34	32.64	46.00	13.36	AVERAGE
9	0.661	0.10	0.20	38.53	38.83	56.00	17.17	QP
10	0.661	0.10	0.20	30.41	30.71	46.00	15.29	AVERAGE
11	2.460	0.10	0.40	34.35	34.85	56.00	21.15	QP
12	2.460	0.10	0.40	28.69	29.19	46.00	16.81	AVERAGE

Remarks: 1.Emission Level= LISN 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 30MHz~1000MHz (at Semi-Anechoic Chamber)

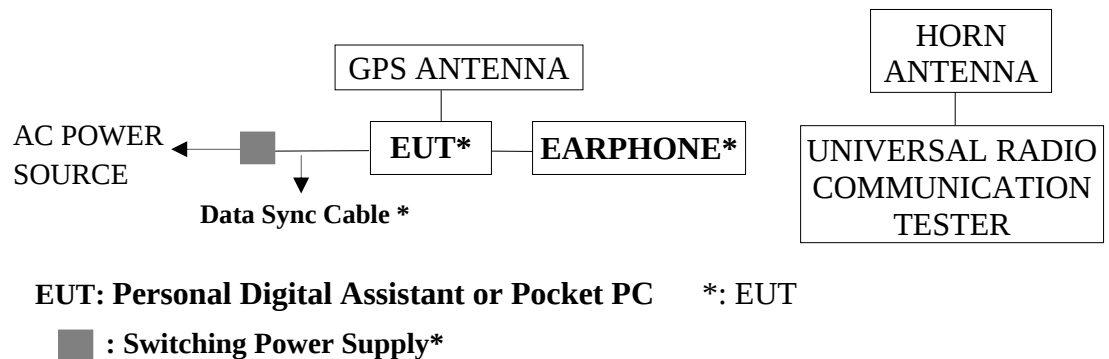
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 26, 05'	Sep. 25, 06'
2.	Test Receiver	R & S	ESCS30	100339	Mar. 21, 06'	Mar. 20, 07'
3.	Pre-Amplifier	HP	8447D	2944A06305	Mar. 09, 06'	Mar. 08, 07'
4.	Biconical Antenna	CHASE	VBA6106A	1264	Nov. 11, 05'	Nov. 10, 06'
5.	Log Periodic Antenna	Schwarzbeck	UHALP9108-A	0139	Dec. 14, 05'	Dec. 13, 06'
6.	Universal Radio Communication Tester	R&S	CMU200	102280	Nov. 22, 05'	Nov. 21, 06'

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

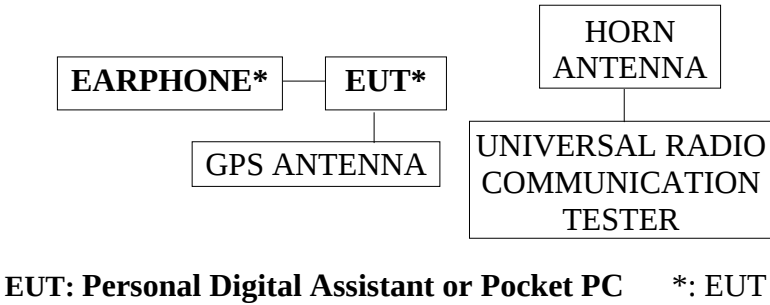
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 26, 05'	Sep. 25, 06'
2.	Pre-Amplifier	HP	8449B	3008A01284	Jul. 05, 05'	Jul. 04, 06'
3.	3.5G High Pass Filter	HP	84300-80038	005	Jan. 11, 06'	Jan. 10, 07'
4.	Horn Antenna	EMCO	3115	9609-4927	Jul. 08, 05'	Jul. 07, 06'
5.	Horn Antenna	EMCO	3116	2653	Oct. 13, 05'	Oct. 12, 06'
6.	Universal Radio Communication Tester	R&S	CMU200	102280	Nov. 22, 05'	Nov. 21, 06'

3.2. Test Setup

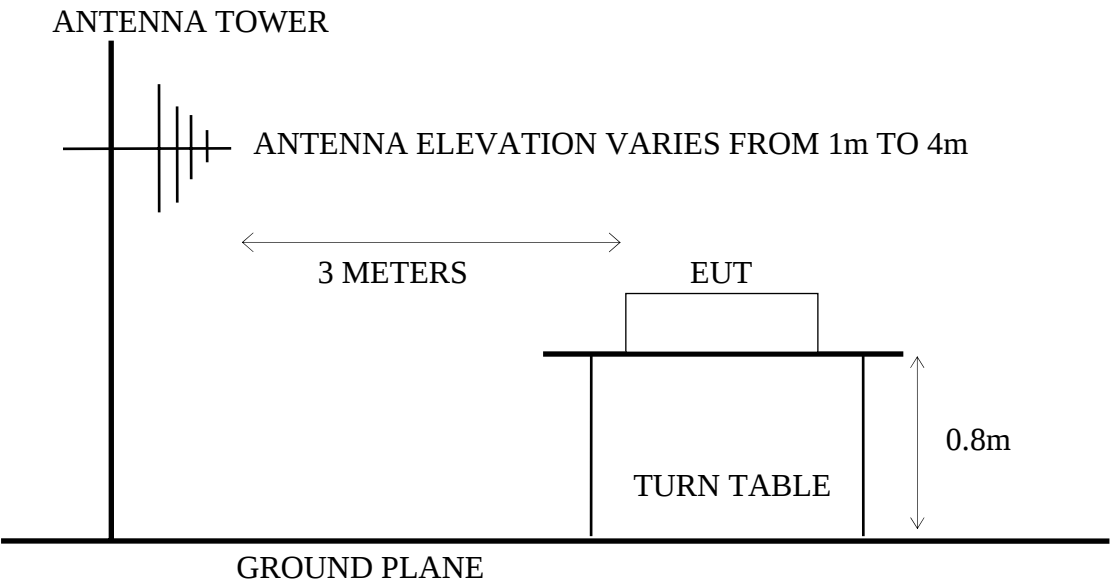
3.2.1. Test Mode: AC Charge



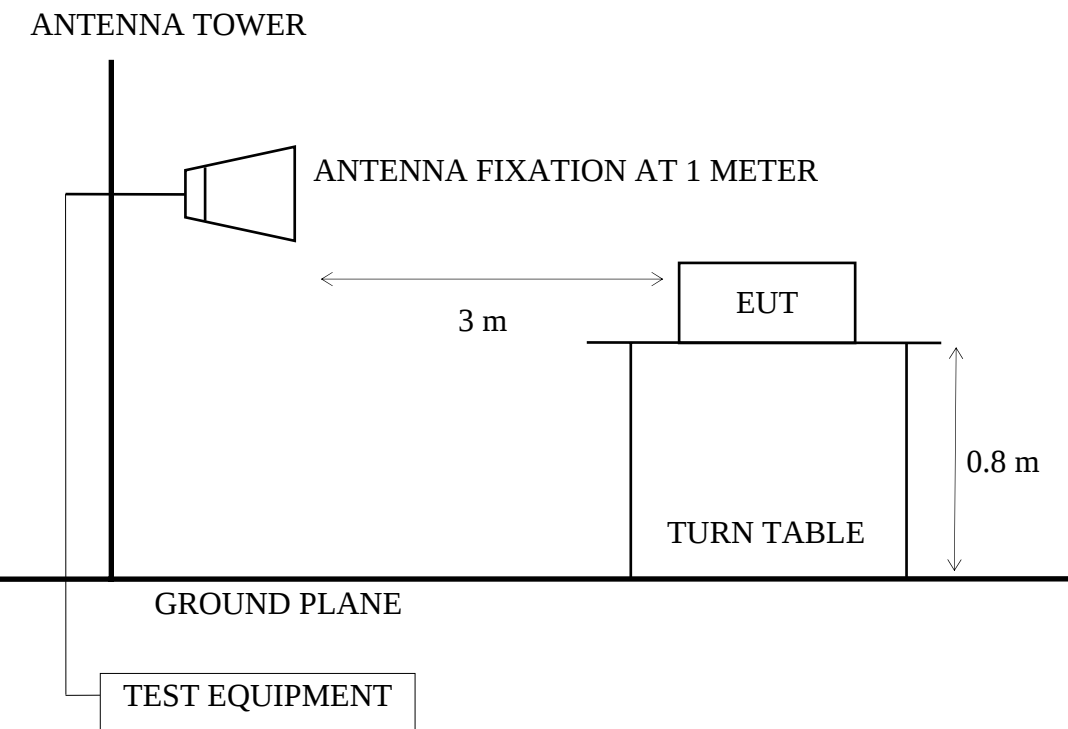
3.2.2. Test Mode: EUT Only



3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



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



3.3. Radiated Emission Limits (§15.209)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (Average)	

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

- 3.4.1. Setup the EUT (Personal Digital Assistant or Pocket PC) and simulator as shown on 2.2.
- 3.4.2. Turn on the power of all equipment.
- 3.4.3. AC Charger (EUT + Switching Power Supply): The EUT through universal radio communication tester to control EUT on transmitted and received channels function through bluetooth during the testing and on charging at the same time. (Test software is BCM2045USB Test App.exe to set the EUT into test mode)
- 3.4.4. EUT Only: The EUT through universal radio communication tester to control EUT on transmitted and received channels function through bluetooth during the testing. (Test software is BCM2045USB Test App.exe to set the EUT into test mode) (EUT place at stand)
- 3.4.5. The Personal Digital Assistant or Pocket PC (EUT) through GPS antenna receive GPS signal during the testing.
- 3.4.6. The other peripheral devices were driven and operated in turn during all testing.

3.5. Test Procedure

The EUT and its simulators were placed on a 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 a 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.

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.

3.6. Radiated Emission Measurement Results

PASSED. All the emissions not reported below are too low against the official limits.

【The EUT was tested in all 3 axis. The test data in this report only documents the worst case – Stand.】

EUT : Personal Digital Assistant or Pocket PC

M/N : HSTNH-L12C-BT

Test Date : Jun. 20, 2006 Temperature : 25

Humidity : 52%

Test Date : Jun. 21, 2006 Temperature : 25

Humidity : 52%

For Frequency Range 30MHz~1000MHz:

The EUT with following test modes were performed during this section testing and all the test results are listed in section 3.6.1.

[Select worst data sync cable (phihong) to via Switching Power Supply to test]

No.	Test Voltage	Test Mode and Frequency		Data Sync Cable(USB Type)	Reference Test Data No.	
					Horizontal	Vertical
1.	AC 120V/60Hz (Via Switching Power Supply)	Transmitting	2402MHz (CH0)	Phihong	# 10	# 9
2.			2441MHz (CH39)		# 9	# 10
3.			2480MHz (CH78)		# 10	# 9
4.		Receiver	2480MHz (CH78)		# 9	# 10
5.	DC 3.7V (Via Battery)	Transmitting	2402MHz (CH0)		# 9	# 10
6.			2441MHz (CH39)		# 9	# 10
7.			2480MHz (CH78)		# 10	# 9
8.		Receiver	2480MHz (CH78)		# 9	# 10

* Above all final readings were measured with Quasi-Peak detector.

For Frequency above 1GHz:

The EUT with following test modes were performed during this section testing and all the test results are listed in section 3.6.2.

No.	Test Voltage	Test Mode and Frequency		Data Sync Cable(USB Type)
1.	AC 120V/60Hz (Via Switching Power Supply)	Transmitting	2402MHz (CH0)	Phihong
2.			2441MHz (CH39)	
3.			2480MHz (CH78)	
4.		Receiver	2480MHz (CH78)	
5.	DC 3.7V (Via Battery)	Transmitting	2402MHz (CH0)	
6.			2441MHz (CH39)	
7.			2480MHz (CH78)	
8.		Receiver	2480MHz (CH78)	

* Above all final readings were measured with Peak detector and Average detector.

For Restricted Bands:

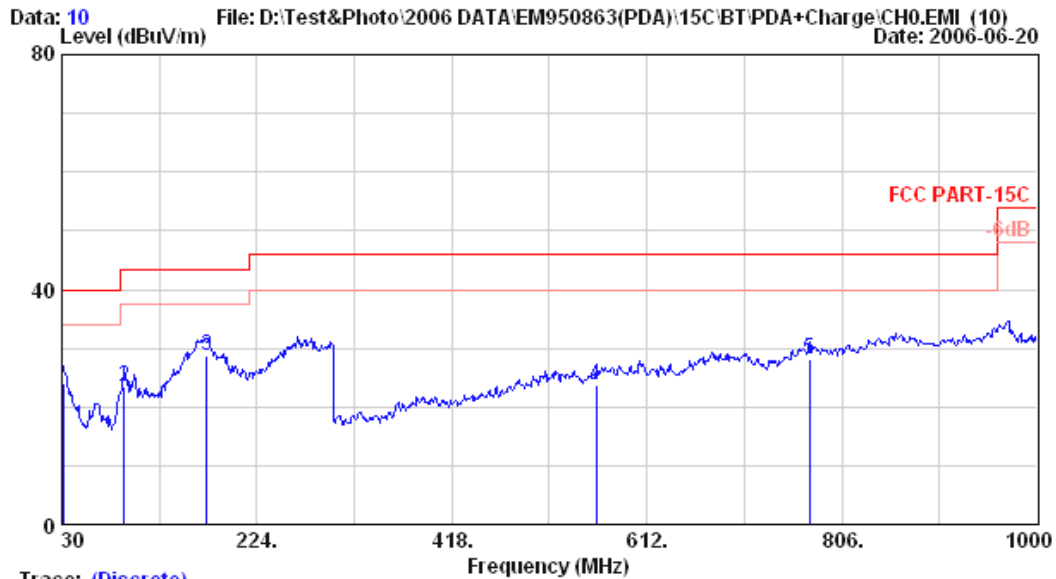
The EUT was tested in restricted bands and all the test results are listed in section 3.6.3. (The restricted bands defined in part 15.205(a))

No.	Test Voltage	Test Mode and Frequency		Data Sync Cable(USB Type)	Reference Test Data No.	
					Horizontal	Vertical
1.	AC 120V/60Hz (Via Switching Power Supply)	Transmitting	2402MHz (CH0)	Phihong	# 3, # 2	#4 , # 1
2.			2480MHz (CH78)		# 5, # 8	# 6, # 7
3.	DC 3.7V (Via Battery)	Transmitting	2402MHz (CH0)		# 2, # 3	# 1, # 4
4.			2480MHz (CH78)		# 8, # 5	# 7, # 6

3.6.1. 30MHz~ 1000MHz Frequency Range Measurement Result



AUDIX 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:ttemc@ttemc.com.tw



Trace: (Discrete)

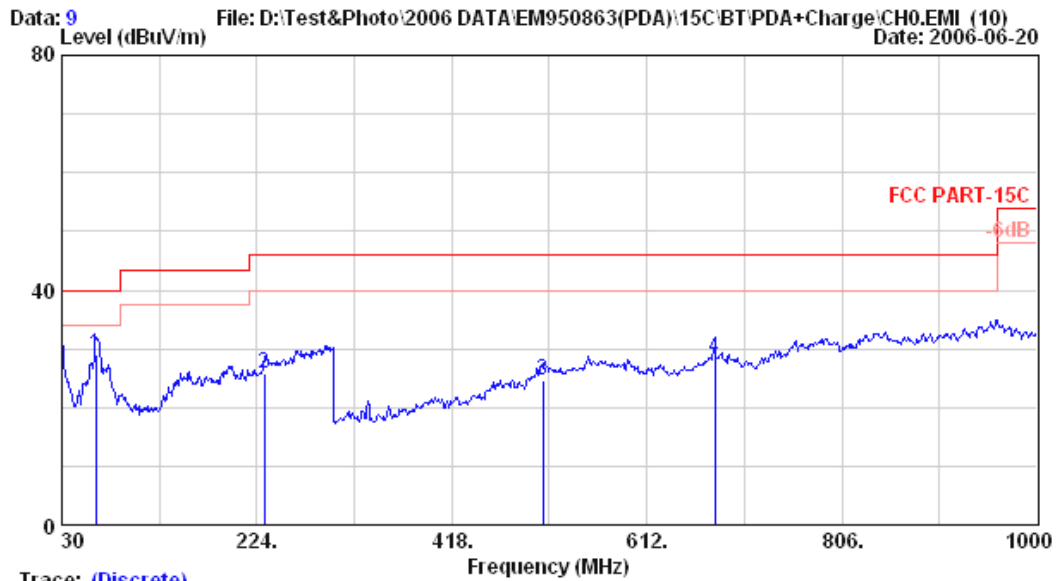
Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : 120Vac/60Hz
Test Mode : CH0 (Bluetooth) PDA+Charge
M/N: HSTNH-L12C-BT

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)		
1	30.970	24.81	1.10	-1.86	24.05	40.00	15.95	
2	92.080	16.08	2.00	5.46	23.53	43.50	19.97	
3	174.530	21.13	2.85	4.80	28.79	43.50	14.71	
4	561.560	20.16	6.70	-3.07	23.79	46.00	22.21	
5	773.990	24.21	6.80	-2.95	28.05	46.00	17.95	

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



AUDIX 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:ttemc@ttemc.com.tw



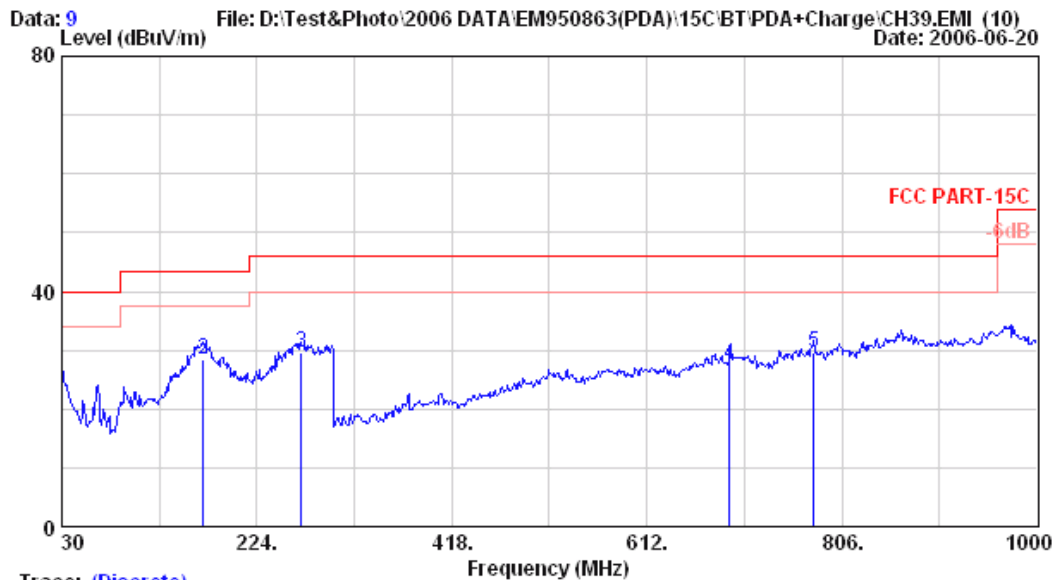
Site no. : A/C Chamber Data no. : 9
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : 120Vac/60Hz
Test Mode : CH0 (Bluetooth) PDA+Charge
M/N: HSTNH-L12C-BT

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	63.950	13.06	1.67	14.18	28.91	40.00	11.09	
2	231.760	24.33	3.30	-1.89	25.74	46.00	20.26	
3	508.210	20.58	6.80	-2.81	24.57	46.00	21.43	
4	679.900	23.52	6.40	-1.60	28.31	46.00	17.69	

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.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:ttemc@ttemc.com.tw



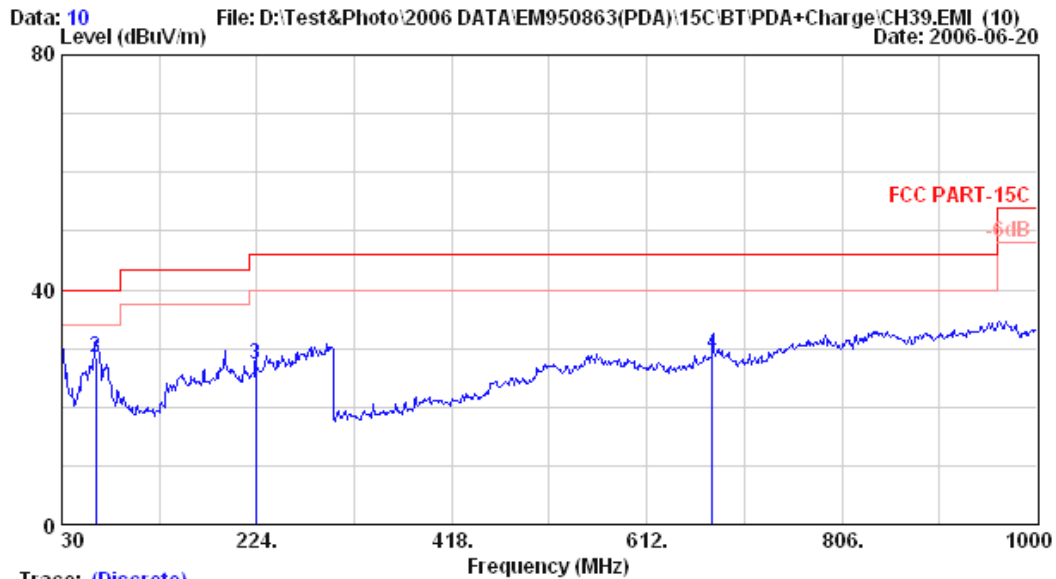
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Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : 120Vac/60Hz
Test Mode : CH39 (Bluetooth) PDA+Charge
M/N:HSTNH-L12C-BT

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	30.000	24.86	1.10	-2.23	23.73	40.00	16.27	
2	170.650	21.03	2.80	4.52	28.34	43.50	15.16	
3	268.620	24.86	3.70	0.89	29.45	46.00	16.55	
4	694.450	23.26	6.40	-2.21	27.45	46.00	18.55	
5	777.870	24.18	6.80	-1.30	29.69	46.00	16.31	

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



AUDIX 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:ttemc@ttemc.com.tw



Trace: (Discrete)

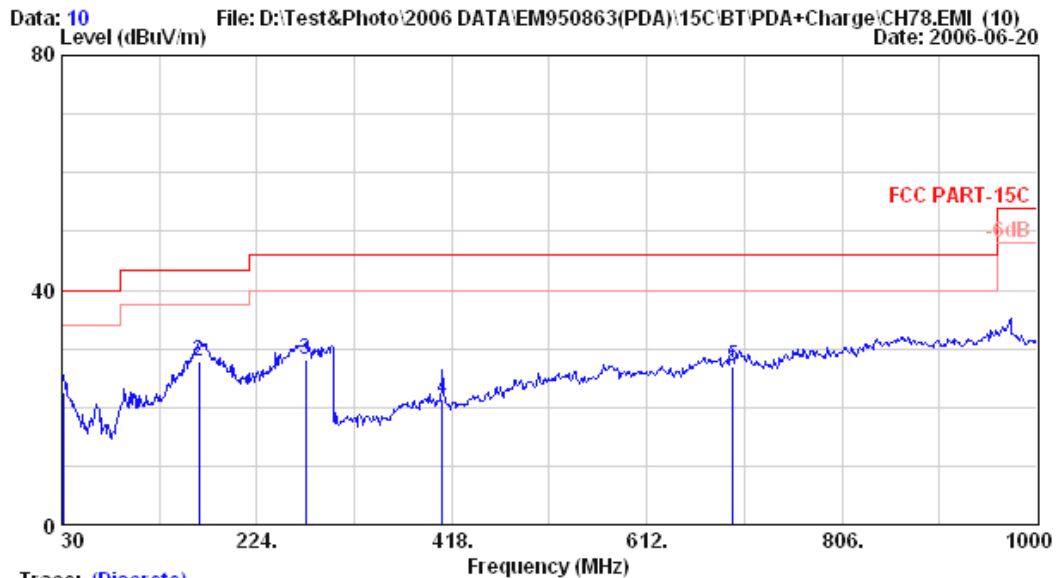
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Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : 120Vac/60Hz
Test Mode : CH39 (Bluetooth) PDA+Charge
M/N: HSTNH-L12C-BT

		Ant.	Cable		Emission		
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.000	23.60	1.10	2.65	27.35	40.00	12.65
2	63.950	13.06	1.67	13.63	28.36	40.00	11.64
3	223.030	22.23	3.30	1.80	27.33	46.00	18.67
4	676.990	23.38	6.40	-0.88	28.91	46.00	17.09

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.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:ttemc@ttemc.com.tw



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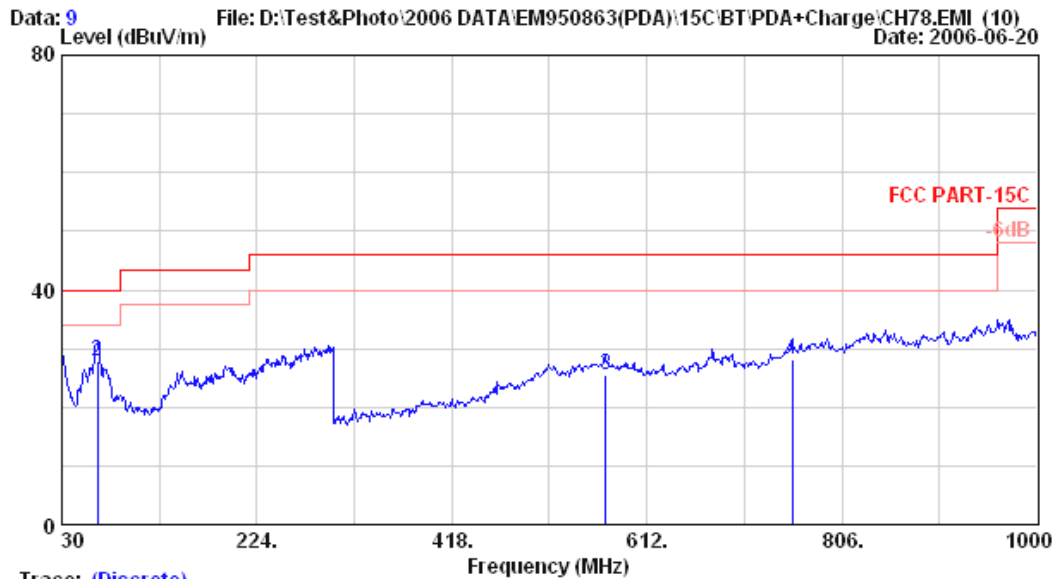
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Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : 120Vac/60Hz
Test Mode : CH78 (Bluetooth) PDA+Charge
M/N:HSTNH-L12C-BT

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	30.970	24.81	1.10	-3.41	22.50	40.00	17.50	
2	166.770	20.96	2.70	4.28	27.94	43.50	15.56	
3	272.500	25.10	3.70	-0.68	28.12	46.00	17.88	
4	408.300	17.28	4.90	-0.87	21.30	46.00	24.70	
5	697.360	23.32	6.50	-2.98	26.84	46.00	19.16	

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
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Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



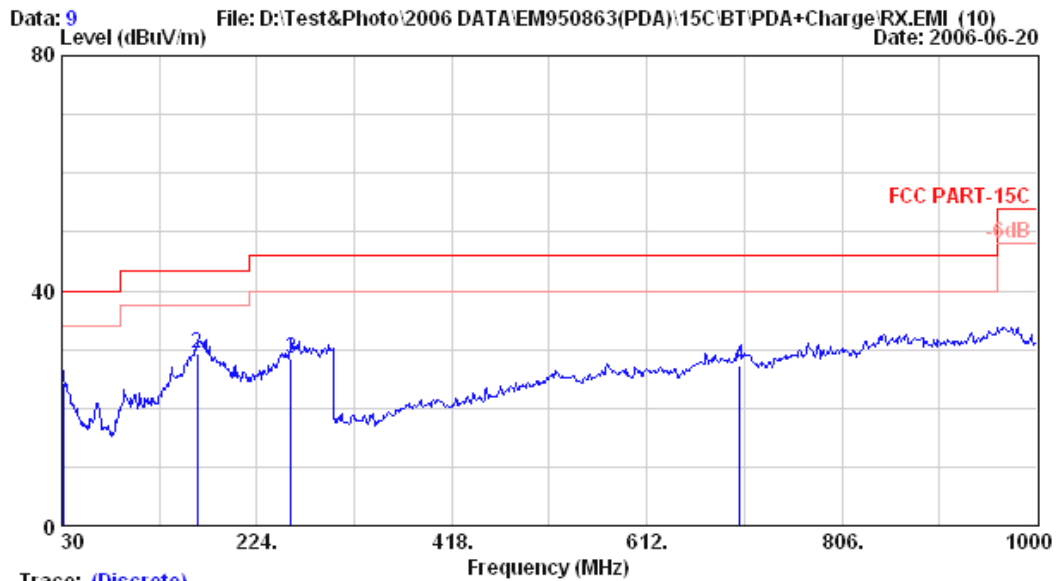
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Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : 120Vac/60Hz
Test Mode : CH78 (Bluetooth) PDA+Charge
M/N: HSTNH-L12C-BT

		Ant.	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.000	23.60	1.10	0.23	24.93	40.00	15.07	
2	65.890	12.69	1.70	13.59	27.98	40.00	12.02	
3	571.260	22.00	6.50	-2.87	25.63	46.00	20.37	
4	756.530	24.76	6.73	-3.38	28.11	46.00	17.89	

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
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Tel:+886-2-26092133 Fax:+886-2-26099303
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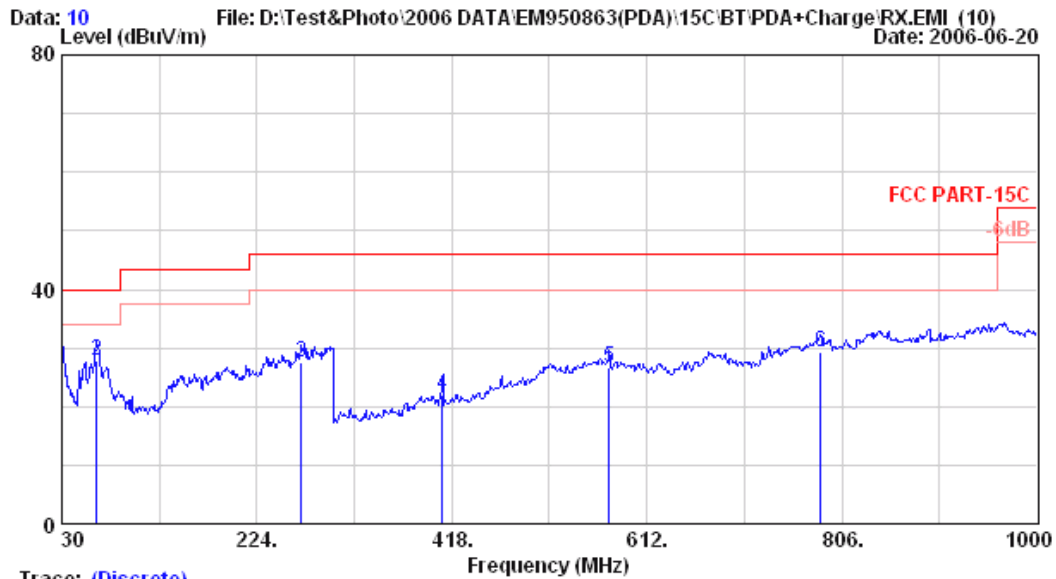
Site no. : A/C Chamber Data no. : 9
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : 120Vac/60Hz
Test Mode : RX (CH78) (Bluetooth) PDA+Charge
M/N: HSTNH-L12C-BT

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	30.970	24.81	1.10	-1.66	24.25	40.00	15.75	
2	164.830	20.89	2.70	5.86	29.45	43.50	14.05	
3	257.950	24.44	3.50	0.59	28.53	46.00	17.47	
4	704.150	23.56	6.60	-2.93	27.23	46.00	18.77	

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



AUDIX Corp. EMC Laboratory
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County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

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

Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL

Limit : FCC PART-15C

Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang

EUT : Personal Digital Assistant or Pocket PC

Power Rating : 120Vac/60Hz

Test Mode : RX (CH78) (Bluetooth) PDA+Charge

M/N:HSTNH-L12C-BT

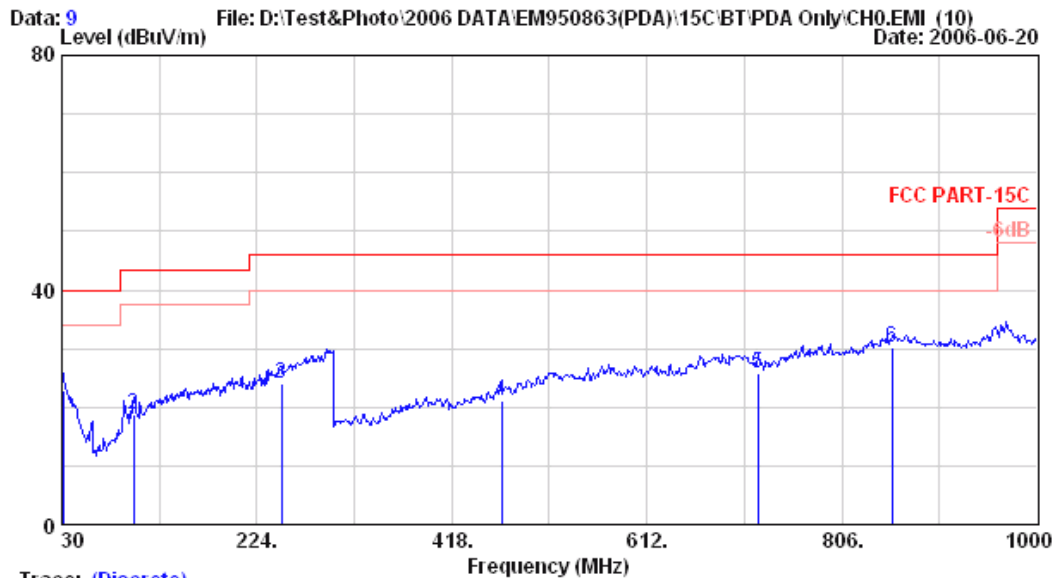
		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	30.000	23.60	1.10	2.53	27.23	40.00	12.77	
2	64.920	12.84	1.70	13.43	27.97	40.00	12.03	
3	268.620	26.04	3.70	-2.14	27.60	46.00	18.40	
4	408.300	17.15	4.90	-0.03	22.02	46.00	23.98	
5	574.170	21.92	6.44	-1.62	26.73	46.00	19.27	
6	784.660	25.40	6.90	-2.96	29.34	46.00	16.66	

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

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



AUDIX 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:ttemc@ttemc.com.tw



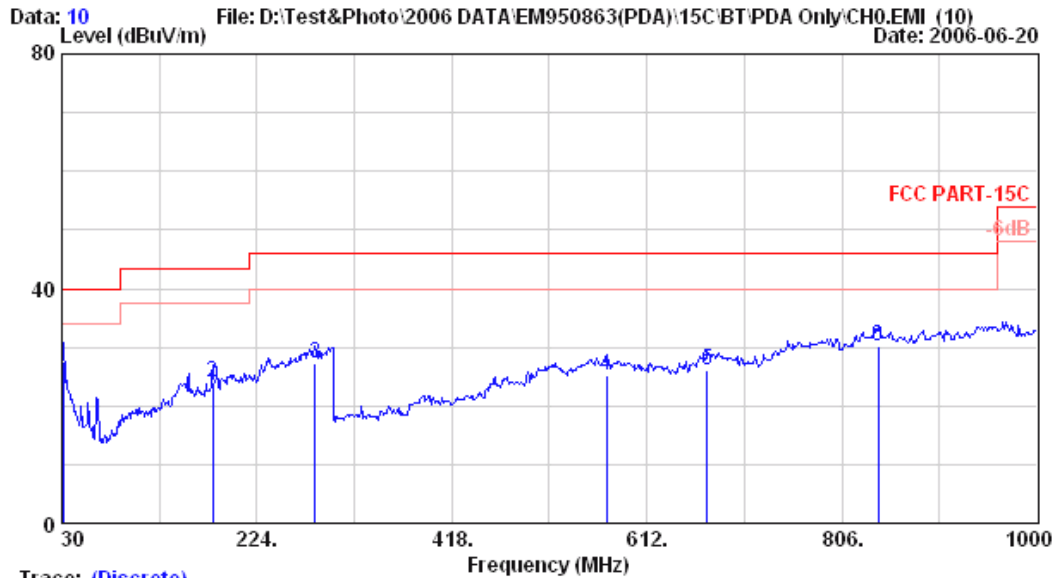
Site no. : A/C Chamber Data no. : 9
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : DC 3.7V
Test Mode : CH0 (Bluetooth) PDA Only
M/N:HSTNH-L12C-BT

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	30.970	24.81	1.10	-3.13	22.78	40.00	17.22	
2	101.780	17.29	2.10	-0.56	18.83	43.50	24.67	
3	248.250	23.66	3.50	-3.06	24.10	46.00	21.90	
4	467.470	18.21	5.80	-2.87	21.14	46.00	24.86	
5	722.580	22.19	6.50	-2.80	25.89	46.00	20.11	
6	855.470	25.87	7.10	-2.73	30.24	46.00	15.76	

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.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
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Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

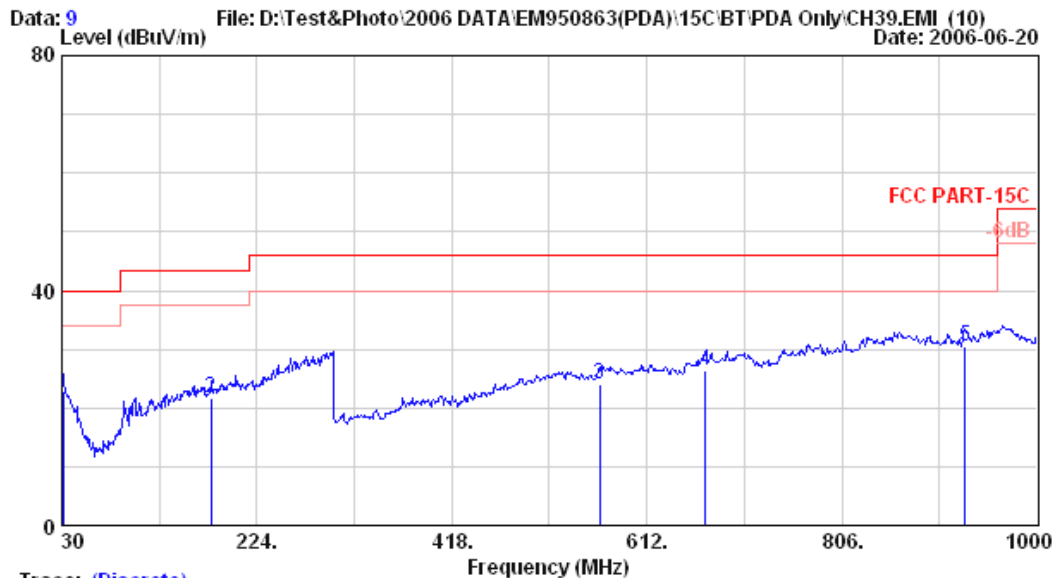
Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : DC 3.7V
Test Mode : CH0 (Bluetooth) PDA Only
M/N: HSTNH-L12C-BT

	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.970	23.39	1.10	3.15	27.64	40.00	12.36	
2	180.350	21.28	2.90	-0.24	23.94	43.50	19.56	
3	282.200	26.43	3.80	-3.09	27.14	46.00	18.86	
4	572.230	21.96	6.50	-3.38	25.08	46.00	20.92	
5	672.140	23.07	6.40	-3.25	26.23	46.00	19.77	
6	841.890	26.62	7.10	-3.42	30.30	46.00	15.70	

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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Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

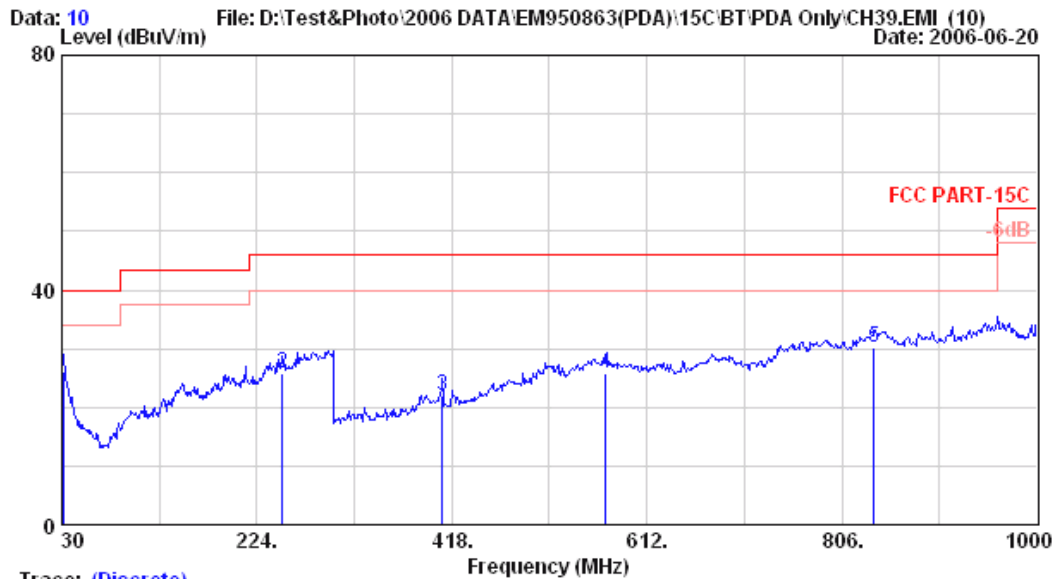
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Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : DC 3.7V
Test Mode : CH39 (Bluetooth) PDA Only
M/N: HSTNH-L12C-BT

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.970	24.81	1.10	-3.15	22.76	40.00	17.24	
2	178.410	21.28	2.90	-2.60	21.58	43.50	21.92	
3	565.440	20.49	6.60	-3.14	23.95	46.00	22.05	
4	670.200	22.83	6.40	-2.95	26.28	46.00	19.72	
5	928.220	24.80	7.50	-1.92	30.38	46.00	15.62	

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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Trace: (Discrete)

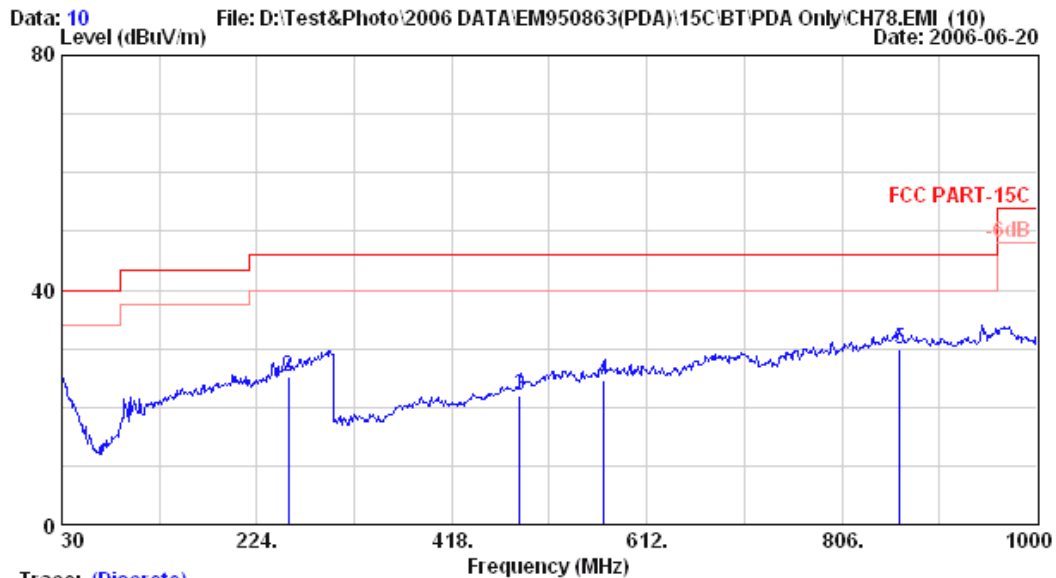
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Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : DC 3.7V
Test Mode : CH39 (Bluetooth) PDA Only
M/N: HSTNH-L12C-BT

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	30.970	23.39	1.10	1.63	26.12	40.00	13.88	
2	249.220	24.95	3.50	-2.70	25.75	46.00	20.25	
3	408.300	17.15	4.90	-0.04	22.01	46.00	23.99	
4	571.260	22.00	6.50	-2.75	25.75	46.00	20.25	
5	838.010	26.57	7.10	-3.42	30.25	46.00	15.75	

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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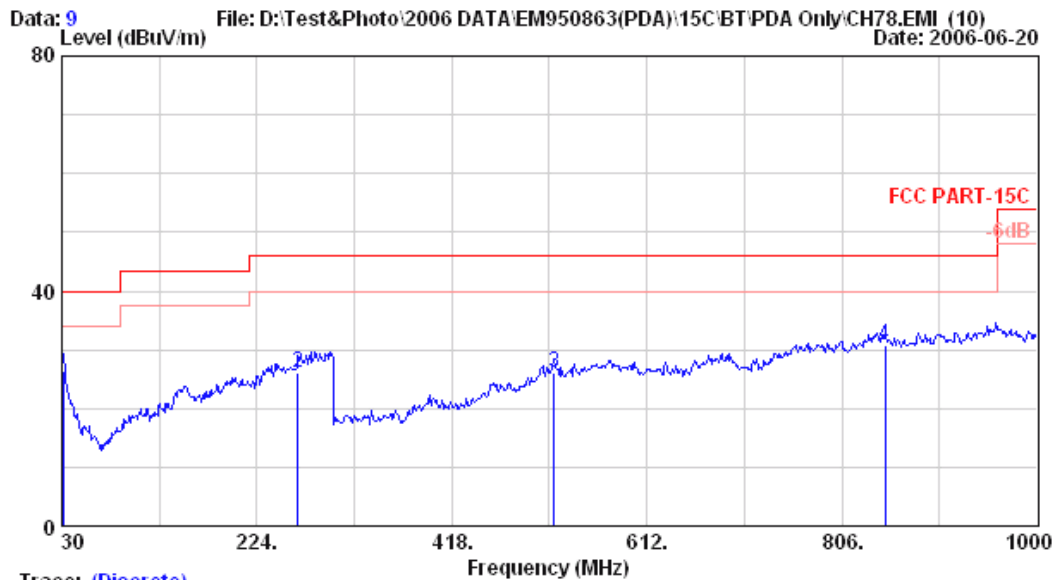
Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : DC 3.7V
Test Mode : CH78 (Bluetooth) PDA Only
M/N:HSTNH-L12C-BT

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.000	24.86	1.10	-3.97	21.99	40.00	18.01	
2	255.040	24.19	3.56	-2.50	25.25	46.00	20.75	
3	485.900	18.76	6.20	-2.88	22.08	46.00	23.92	
4	569.320	21.17	6.50	-3.00	24.67	46.00	21.33	
5	863.230	26.09	7.20	-3.30	29.99	46.00	16.01	

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.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
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Email:ttemc@ttemc.com.tw



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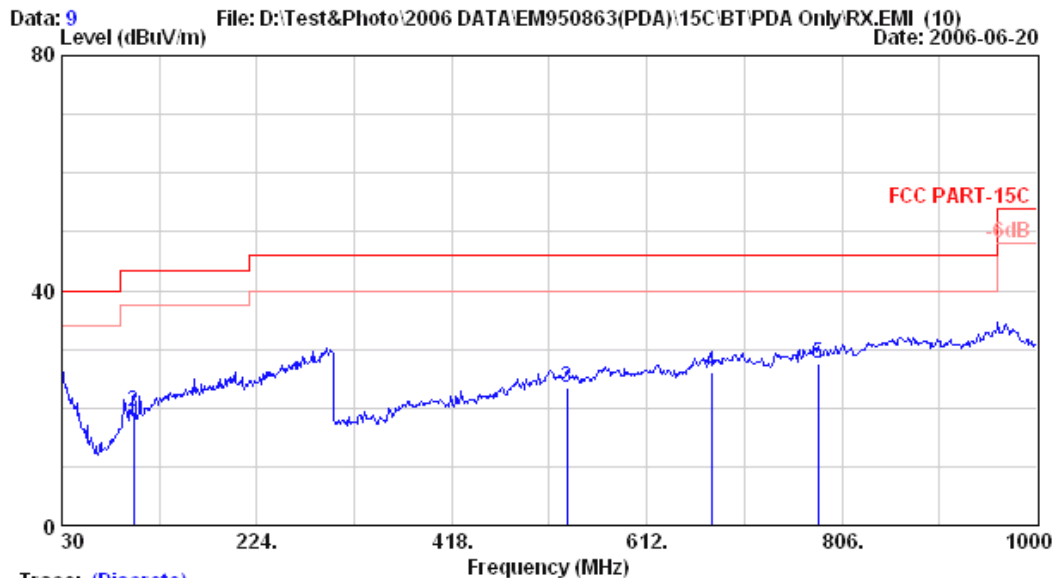
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Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : DC 3.7V
Test Mode : CH78 (Bluetooth) PDA Only
M/N: HSTNH-L12C-BT

		Ant. Cable		Emission				
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.970	23.39	1.10	1.75	26.24	40.00	13.76	
2	264.740	25.20	3.70	-2.80	26.09	46.00	19.91	
3	519.850	20.77	6.90	-1.57	26.10	46.00	19.90	
4	848.680	26.54	7.10	-2.89	30.75	46.00	15.25	

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
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Tel:+886-2-26092133 Fax:+886-2-26099303
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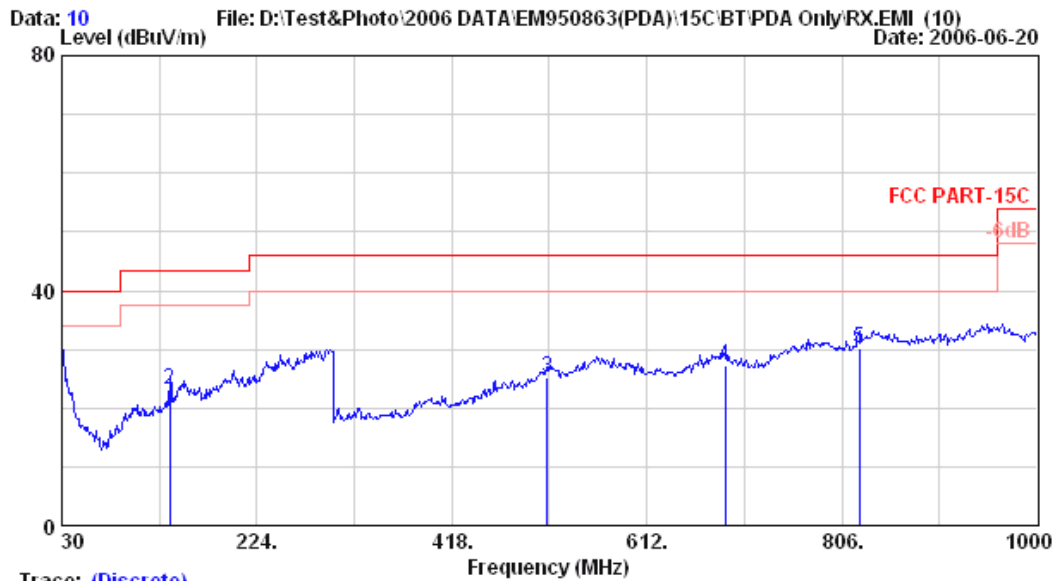
Site no. : A/C Chamber Data no. : 9
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : DC 3.7V
Test Mode : RX (CH78) (Bluetooth) PDA Only
M/N: HSTNH-L12C-BT

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	30.000	24.86	1.10	-2.40	23.56	40.00	16.44	
2	101.780	17.29	2.10	0.01	19.40	43.50	24.10	
3	532.460	19.64	7.00	-3.14	23.50	46.00	22.50	
4	676.020	22.89	6.40	-3.15	26.13	46.00	19.87	
5	782.720	23.99	6.90	-3.33	27.55	46.00	18.45	

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



AUDIX 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:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
EUT : Personal Digital Assistant or Pocket PC
Power Rating : DC 3.7V
Test Mode : RX (CH78) (Bluetooth) PDA Only
M/N: HSTNH-L12C-BT

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.000	23.60	1.10	2.60	27.30	40.00	12.70	
2	137.670	19.07	2.43	1.60	23.10	43.50	20.40	
3	513.060	20.92	6.80	-2.63	25.09	46.00	20.91	
4	689.600	23.46	6.50	-2.65	27.32	46.00	18.68	
5	823.460	25.37	7.00	-2.17	30.20	46.00	15.80	

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

3.6.2. Above 1GHz Frequency Range Measurement Results

Date of Test : Jun. 21, 2006 Temperature : 25EUT : Personal Digital Assistant or Pocket PC Humidity : 52%Test Mode : Transmitting Mode, Frequency: 2402MHz (CH0) Test Voltage : AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak	1204.960	25.29	4.59	9.93	39.81	74.00	34.19
	1818.160	27.01	6.80	7.90	41.71	74.00	32.29
	2241.520	28.31	6.16	6.94	41.41	74.00	32.59
	2632.960	29.37	6.68	6.70	42.75	74.00	31.25
Average	1204.960	25.29	4.59	1.93	31.81	54.00	22.19
	1818.160	27.01	6.80	-0.10	33.71	54.00	20.29
	2241.520	28.31	6.16	-1.06	33.41	54.00	20.59
	2632.960	29.37	6.68	-1.30	34.75	54.00	19.25
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak	1204.960	25.29	4.59	9.91	39.79	74.00	34.21
	1603.120	25.95	6.18	8.51	40.64	74.00	33.36
	2162.560	28.15	6.06	7.07	41.28	74.00	32.72
	2560.720	29.05	6.57	11.12	46.74	74.00	27.26
	2641.360	29.40	6.69	10.28	46.37	74.00	27.63
Average	1204.960	25.29	4.59	1.91	31.79	54.00	22.21
	1603.120	25.95	6.18	0.51	32.64	54.00	21.36
	2162.560	28.15	6.06	-0.93	33.28	54.00	20.72
	2560.720	29.05	6.57	3.12	38.74	54.00	15.26
	2641.360	29.40	6.69	3.28	39.37	54.00	14.63

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test : Jun. 21, 2006 Temperature : 25EUT : Personal Digital Assistant or Pocket PC Humidity : 52%Test Mode : Transmitting Mode, Frequency:
2441MHz (CH39) Test Voltage : AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak	1204.960	25.29	4.59	9.33	39.21	74.00	34.79
	1750.960	26.70	7.16	7.87	41.73	74.00	32.27
	2243.200	28.32	6.16	5.73	40.21	74.00	33.79
Average	1204.960	25.29	4.59	1.33	31.21	54.00	22.79
	1750.960	26.70	7.16	-0.13	33.73	54.00	20.27
	2243.200	28.32	6.16	-2.27	32.21	54.00	21.79
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak	1104.160	25.25	4.40	9.63	39.28	74.00	34.72
	1745.920	26.67	7.12	7.86	41.65	74.00	32.35
	2560.720	29.05	6.57	10.88	46.50	74.00	27.50
	2641.360	29.40	6.69	9.06	45.15	74.00	28.85
Average	1104.160	25.25	4.40	1.63	31.28	54.00	22.72
	1745.920	26.67	7.12	-0.14	33.65	54.00	20.35
	2560.720	29.05	6.57	2.88	38.50	54.00	15.50
	2641.360	29.40	6.69	1.06	37.15	54.00	16.85

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test : Jun. 21, 2006 Temperature : 25EUT : Personal Digital Assistant or Pocket PC Humidity : 52%Test Mode : Transmitting Mode, Frequency:
2480MHz (CH78) Test Voltage : AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak	1204.960	25.29	4.59	8.47	38.35	74.00	35.65
	1725.760	26.58	7.00	7.24	40.82	74.00	33.18
	2325.520	28.48	6.26	6.92	41.66	74.00	32.34
Average	1204.960	25.29	4.59	0.47	30.35	54.00	23.65
	1725.760	26.58	7.00	-0.76	32.82	54.00	21.18
	2325.520	28.48	6.26	-1.08	33.66	54.00	20.34
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak	1104.160	25.25	4.40	9.49	39.14	74.00	34.86
	1678.720	26.34	6.69	7.79	40.82	74.00	33.18
	2560.720	29.05	6.57	11.19	46.81	74.00	27.19
	2641.360	29.40	6.69	9.37	45.46	74.00	28.54
Average	1104.160	25.25	4.40	0.49	30.14	54.00	23.86
	1678.720	26.34	6.69	-1.21	31.82	54.00	22.18
	2560.720	29.05	6.57	3.19	38.81	54.00	15.19
	2641.360	29.40	6.69	1.37	37.46	54.00	16.54

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test : Jun. 21, 2006 Temperature : 25EUT : Personal Digital Assistant or Pocket PC Humidity : 52%Test Mode : Receiving Mode, Frequency: 2480MHz (CH78) Test Voltage : AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak	1204.960	25.29	4.59	9.24	39.12	74.00	34.88
	1734.160	26.60	7.07	7.68	41.35	74.00	32.65
	2266.720	28.36	6.18	5.88	40.42	74.00	33.58
Average	1204.960	25.29	4.59	1.24	31.12	54.00	22.88
	1734.160	26.60	7.07	-0.32	33.35	54.00	20.65
	2266.720	28.36	6.18	-2.12	32.42	54.00	21.58
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak	1204.960	25.29	4.59	9.68	39.56	74.00	34.44
	1641.760	26.17	6.41	8.38	40.96	74.00	33.04
	1885.360	27.30	6.45	7.04	40.79	74.00	33.21
	2560.720	29.05	6.57	9.81	45.43	74.00	28.57
	2641.360	29.40	6.69	9.06	45.15	74.00	28.85
Average	1204.960	25.29	4.59	1.68	31.56	54.00	22.44
	1641.760	26.17	6.41	0.38	32.96	54.00	21.04
	1885.360	27.30	6.45	-1.96	31.79	54.00	22.21
	2560.720	29.05	6.57	1.81	37.43	54.00	16.57
	2641.360	29.40	6.69	2.06	38.15	54.00	15.85

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test : Jun. 21, 2006 Temperature : 25EUT : Personal Digital Assistant or Pocket PC Humidity : 52%Test Mode : Transmitting Mode, Frequency: 2402MHz (CH0) Test Voltage : DC 3.7V

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak	1204.960	25.29	4.59	10.12	40.00	74.00	34.00
	1725.760	26.58	7.00	7.45	41.03	74.00	32.97
	1804.720	26.94	6.88	7.15	40.97	74.00	33.03
	2560.720	29.05	6.57	7.76	43.38	74.00	30.62
Average	1204.960	25.29	4.59	2.12	32.00	54.00	22.00
	1725.760	26.58	7.00	-0.55	33.03	54.00	20.97
	1804.720	26.94	6.88	-0.85	32.97	54.00	21.03
	2560.720	29.05	6.57	-1.24	34.38	54.00	19.62
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak	1204.960	25.29	4.59	10.47	40.35	74.00	33.65
	1720.720	26.55	6.96	8.52	42.03	74.00	31.97
	2481.760	28.76	6.44	9.94	45.14	74.00	28.86
	2560.720	29.05	6.57	11.07	46.69	74.00	27.31
	2641.360	29.40	6.69	9.66	45.75	74.00	28.25
Average	1204.960	25.29	4.59	2.47	32.35	54.00	21.65
	1720.720	26.55	6.96	0.52	34.03	54.00	19.97
	2481.760	28.76	6.44	1.94	37.14	54.00	16.86
	2560.720	29.05	6.57	3.07	38.69	54.00	15.31
	2641.360	29.40	6.69	0.66	36.75	54.00	17.25

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test : Jun. 21, 2006 Temperature : 25EUT : Personal Digital Assistant or Pocket PC Humidity : 52%Test Mode : Transmitting Mode, Frequency:
2441MHz (CH39) Test Voltage : DC 3.7V

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak	1204.960	25.29	4.59	10.12	40.00	74.00	34.00
	1569.520	25.78	5.90	8.46	40.14	74.00	33.86
	1725.760	26.58	7.00	8.48	42.06	74.00	31.94
	2560.720	29.05	6.57	6.73	42.35	74.00	31.65
Average	1204.960	25.29	4.59	1.12	31.00	54.00	23.00
	1569.520	25.78	5.90	0.46	32.14	54.00	21.86
	1725.760	26.58	7.00	-0.52	33.06	54.00	20.94
	2560.720	29.05	6.57	-1.27	34.35	54.00	19.65
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak	1204.960	25.29	4.59	9.82	39.70	74.00	34.30
	1729.120	26.58	7.04	7.93	41.55	74.00	32.45
	2132.320	28.09	6.03	6.57	40.69	74.00	33.31
	2560.720	29.05	6.57	11.53	47.15	74.00	26.85
	2641.360	29.40	6.69	9.53	45.62	74.00	28.38
Average	1204.960	25.29	4.59	1.82	31.70	54.00	22.30
	1729.120	26.58	7.04	-0.07	33.55	54.00	20.45
	2132.320	28.09	6.03	-1.43	32.69	54.00	21.31
	2560.720	29.05	6.57	3.53	39.15	54.00	14.85
	2641.360	29.40	6.69	1.53	37.62	54.00	16.38

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test : Jun. 21, 2006 Temperature : 25

EUT : Personal Digital Assistant or Pocket PC Humidity : 52%

Test Mode : Transmitting Mode, Frequency: 2480MHz (CH78) Test Voltage : DC 3.7V

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak	1204.960	25.29	4.59	10.40	40.28	74.00	33.72
	1745.920	26.67	7.12	7.91	41.70	74.00	32.30
	2241.520	28.31	6.16	7.56	42.03	74.00	31.97
	2560.720	29.05	6.57	12.12	47.74	74.00	26.26
	2641.360	29.40	6.69	9.18	45.27	74.00	28.73
Average	1204.960	25.29	4.59	2.40	32.28	54.00	21.72
	1745.920	26.67	7.12	-0.09	33.70	54.00	20.30
	2241.520	28.31	6.16	-0.44	34.03	54.00	19.97
	2560.720	29.05	6.57	4.15	39.77	54.00	14.23
	2641.360	29.40	6.69	1.18	37.27	54.00	16.73
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak	1104.160	25.25	4.40	9.16	38.81	74.00	35.19
	1641.760	26.17	6.41	8.04	40.62	74.00	33.38
	1776.160	26.82	7.04	7.45	41.31	74.00	32.69
	2560.720	29.05	6.57	11.12	46.74	74.00	27.26
	2641.360	29.40	6.69	9.04	45.13	74.00	28.87
Average	1104.160	25.25	4.40	1.16	30.81	54.00	23.19
	1641.760	26.17	6.41	0.04	32.62	54.00	21.38
	1776.160	26.82	7.04	-0.55	33.31	54.00	20.69
	2560.720	29.05	6.57	2.12	37.74	54.00	16.26
	2641.360	29.40	6.69	0.04	36.13	54.00	17.87

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test : Jun. 21, 2006 Temperature : 25EUT : Personal Digital Assistant or Pocket PC Humidity : 52%Test Mode : Receiving Mode, Frequency: 2480MHz (CH78) Test Voltage : DC 3.7V

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak	1204.960	25.29	4.59	9.18	39.06	74.00	34.94
	1734.160	26.60	7.07	7.43	41.10	74.00	32.90
	2254.960	28.33	6.17	6.41	40.91	74.00	33.09
	2540.560	28.99	6.53	7.18	42.70	74.00	31.30
Average	1204.960	25.29	4.59	2.18	32.06	54.00	21.94
	1734.160	26.60	7.07	-0.57	33.10	54.00	20.90
	2254.960	28.33	6.17	-2.59	31.91	54.00	22.09
	2540.560	28.99	6.53	-1.82	33.70	54.00	20.30
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak	1569.520	25.78	5.90	8.44	40.12	74.00	33.88
	1720.720	26.55	6.96	8.27	41.78	74.00	32.22
	2560.720	29.05	6.57	11.76	47.38	74.00	26.62
	2641.360	29.40	6.69	9.48	45.57	74.00	28.43
Average	1569.520	25.78	5.90	0.44	32.12	54.00	21.88
	1720.720	26.55	6.96	0.27	33.78	54.00	20.22
	2560.720	29.05	6.57	2.76	38.38	54.00	15.62
	2641.360	29.40	6.69	1.48	37.57	54.00	16.43

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

3.6.3. Restricted Bands Measurement Results

Date of Test :	Jun. 20, 2006	Temperature :	25
EUT :	Personal Digital Assistant or Pocket PC	Humidity :	52%
Test Mode :	Transmitting Mode, Frequency: 2402MHz (CH0)	Test Voltage :	AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak *	2381.610	28.58	6.33	12.37	47.28	74.00	26.72
Average *	2378.860	28.58	6.32	-1.55	33.35	54.00	20.65

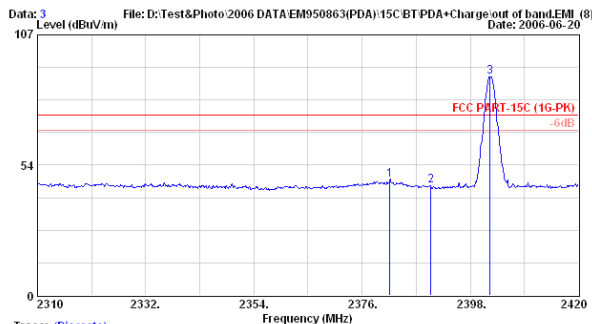
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX 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:ttmc@ttmc.com.tw



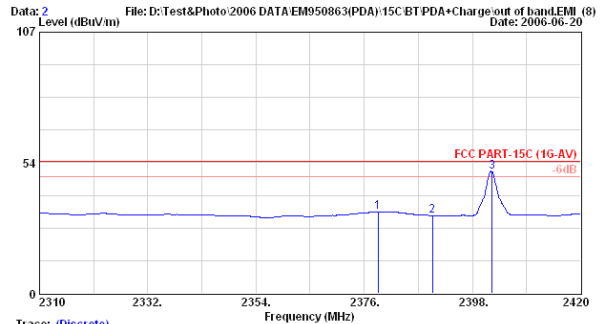
AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Trace: (Discrete)
 Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : 120Vac/60Hz
 Test Mode : CH0 (Bluetooth) PDA+Charge
 M/N: H8TNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2381.610	28.58	6.33	12.37	47.28	74.00	26.72	Peak
2	2390.000	28.59	6.34	10.05	44.99	74.00	29.01	Peak
3	2402.000	28.62	6.36	54.69	89.66	74.00	-15.66	Peak

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



Trace: (Discrete)
 Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : 120Vac/60Hz
 Test Mode : CH0 (Bluetooth) PDA+Charge
 M/N: H8TNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2378.860	28.58	6.32	-1.55	33.35	54.00	20.65	Average
2	2389.860	28.59	6.34	-3.04	31.89	54.00	22.11	Average
3	2402.000	28.62	6.36	14.89	49.87	54.00	4.13	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 : Jun. 20, 2006 Temperature : 25

EUT : Personal Digital Assistant or Pocket PC Humidity : 52%

Test Mode : Transmitting Mode, Frequency: 2402MHz (CH0) Test Voltage : AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak *	2380.510	28.58	6.33	11.52	46.43	74.00	27.57
Average *	2483.810	28.59	6.33	-0.97	33.95	54.00	20.05

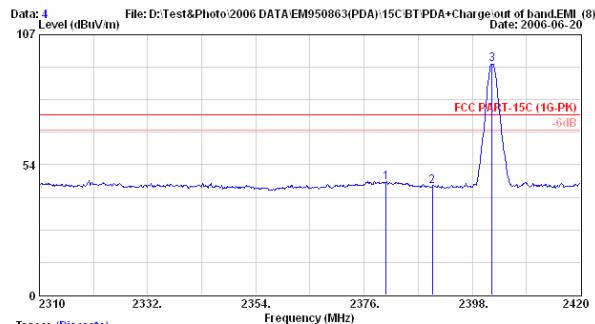
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX Corp. EMC Laboratory
 No.33-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



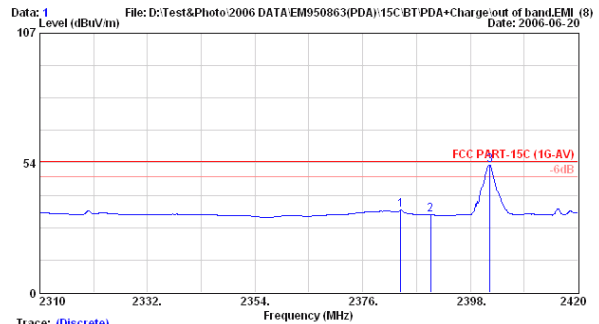
AUDIX Corp. EMC Laboratory
 No.33-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : 120Vac/60Hz
 Test Mode : CH0 (Bluetooth) PDA+Charge
 M/N: HSTNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2380.510	28.58	6.33	11.52	46.43	74.00	27.57	Peak
2	2389.860	28.59	6.34	9.77	44.70	74.00	29.30	Peak
3	2402.000	28.62	6.36	59.77	94.75	74.00	-20.75	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. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : 120Vac/60Hz
 Test Mode : CH0 (Bluetooth) PDA+Charge
 M/N: HSTNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2383.810	28.59	6.33	-0.97	33.96	54.00	20.04	Average
2	2389.860	28.59	6.34	-2.95	31.99	54.00	22.01	Average
3	2402.000	28.62	6.36	17.40	52.37	54.00	1.63	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 : Jun. 20, 2006 Temperature : 25

EUT : Personal Digital Assistant or Pocket PC Humidity : 52%

Test Mode : Transmitting Mode, Frequency: 2480MHz (CH78) Test Voltage : AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak *	2488.540	28.77	6.45	11.22	46.44	74.00	27.56
Average *	2483.600	28.77	6.45	-2.30	32.92	54.00	21.08

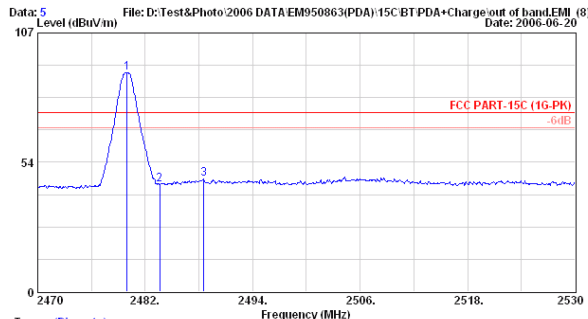
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX 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:tttmc@tttmc.com.tw



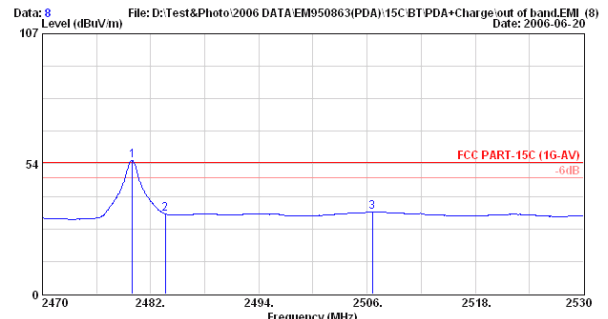
AUDIX Corp. EMC Laboratory
 No.53-11, Tin-Fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:tttmc@tttmc.com.tw



Trace: (Discrete)
 Site no. : A/C Chamber Data no. : 5
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : 120Vac/60Hz
 Test Mode : CH78 (Bluetooth) PDA+Charge
 M/N: H8TNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2480.000	28.76	6.44	55.35	90.55	74.00	-16.55	Peak
2	2483.600	28.77	6.45	8.88	44.10	74.00	29.90	Peak
3	2488.540	28.77	6.45	11.22	46.45	74.00	27.55	Peak

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



Trace: (Discrete)
 Site no. : A/C Chamber Data no. : 8
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : 120Vac/60Hz
 Test Mode : CH78 (Bluetooth) PDA+Charge
 M/N: H8TNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2480.000	28.76	6.44	19.60	54.81	54.00	-0.81	Average
2	2483.600	28.77	6.45	-2.30	32.92	54.00	21.08	Average
3	2506.600	28.83	6.48	-1.72	33.59	54.00	20.41	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 : Jun. 20, 2006 Temperature : 25

EUT : Personal Digital Assistant or Pocket PC Humidity : 52%

Test Mode : Transmitting Mode, Frequency: 2480MHz (CH78) Test Voltage : AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak *	2491.120	28.79	6.46	11.43	46.68	74.00	27.32
Average *	2496.040	28.79	6.46	-1.87	33.38	54.00	20.62

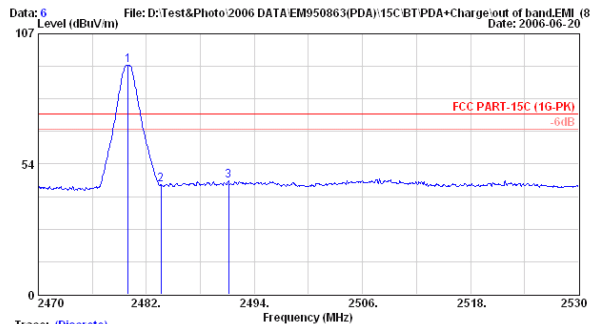
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX 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: itemc@itemc.com.tw



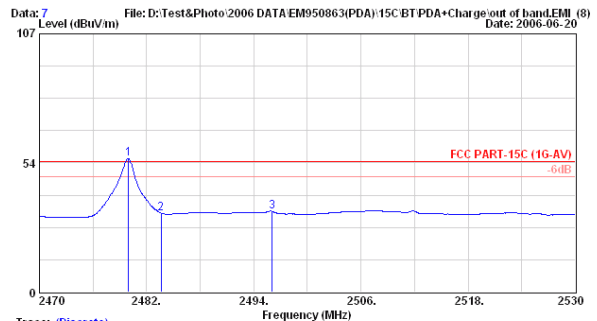
AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email: itemc@itemc.com.tw



Site no. : A/C Chamber Data no. : 6
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : 120Vac/60Hz
 Test Mode : CH78 (Bluetooth) PDA+Charge
 M/N: H8TNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2480.000	28.76	6.44	59.03	94.24	74.00	-20.24	Peak
2	2483.600	28.77	6.45	10.01	45.23	74.00	28.77	Peak
3	2491.120	28.79	6.46	11.43	46.68	74.00	27.32	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. : 7
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : 120Vac/60Hz
 Test Mode : CH78 (Bluetooth) PDA+Charge
 M/N: H8TNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2480.000	28.76	6.44	19.91	55.11	54.00	-1.11	Average
2	2483.600	28.77	6.45	-2.53	32.69	54.00	21.31	Average
3	2496.040	28.79	6.46	-1.87	33.38	54.00	20.62	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 : Jun. 20, 2006 Temperature : 25

EUT : Personal Digital Assistant or Pocket PC Humidity : 52%

Test Mode : Transmitting Mode, Frequency: 2402MHz (CH0) Test Voltage : DC 3.7V

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak *	2378.090	28.59	6.32	12.03	46.94	74.00	27.06
Average *	2378.530	28.58	6.32	-1.54	33.36	54.00	20.64

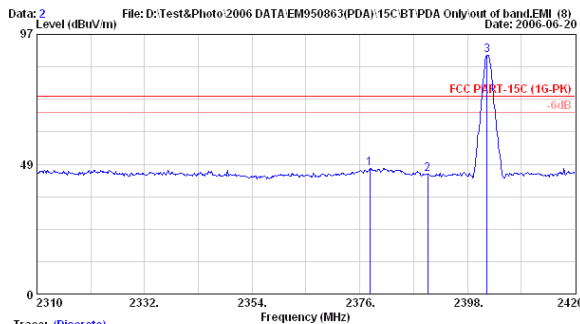
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX 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:ttmc@ttmc.com.tw



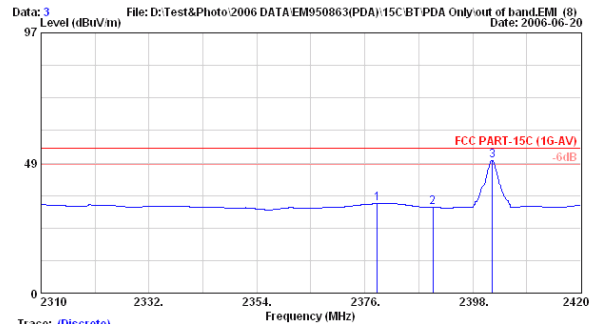
AUDIX Corp. EMC Laboratory
 No.53-11, Tin-Fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : DC 3.7V
 Test Mode : CH0 (Bluetooth) PDA Only
 M/N: HSTNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2378.090	28.58	6.32	12.03	46.93	74.00	27.07	Peak
2	2389.860	28.59	6.34	9.81	44.74	74.00	29.26	Peak
3	2402.000	28.62	6.36	54.09	89.07	74.00	-15.07	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 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : DC 3.7V
 Test Mode : CH0 (Bluetooth) PDA Only
 M/N: HSTNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2378.530	28.58	6.32	-1.54	33.36	54.00	20.64	Average
2	2389.860	28.59	6.34	-2.98	31.95	54.00	22.05	Average
3	2402.000	28.62	6.36	14.36	49.33	54.00	4.67	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 : Jun. 20, 2006 Temperature : 25

EUT : Personal Digital Assistant or Pocket PC Humidity : 52%

Test Mode : Transmitting Mode, Frequency: 2402MHz (CH0) Test Voltage : DC 3.7V

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak *	2380.070	28.58	6.32	12.42	47.32	74.00	26.68
Average *	2379.190	28.58	6.32	-1.43	33.47	54.00	20.53

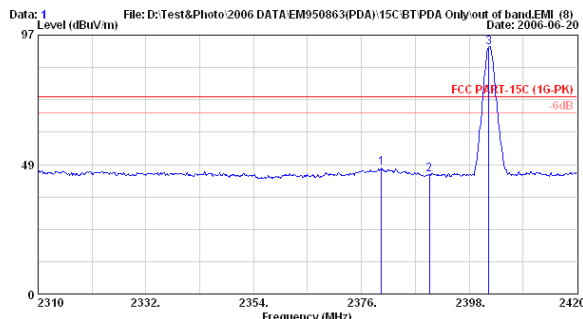
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX 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:ttmc@ttmc.com.tw



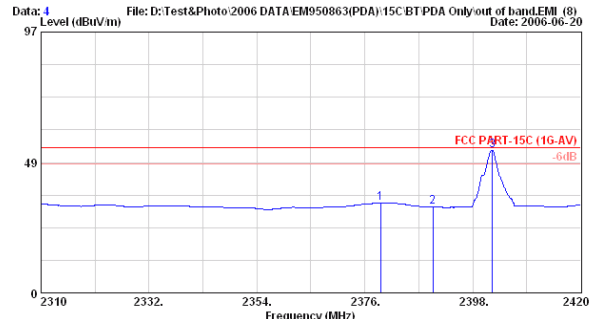
AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : DC 3.7V
 Test Mode : CH0 (Bluetooth) PDA Only
 M/N: H8TNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2380.070	28.58	6.32	12.42	47.32	74.00	26.68	Peak
2	2389.860	28.59	6.34	9.77	44.70	74.00	29.30	Peak
3	2402.000	28.62	6.36	57.32	92.30	74.00	-18.30	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. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : DC 3.7V
 Test Mode : CH0 (Bluetooth) PDA Only
 M/N: H8TNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2379.190	28.58	6.32	-1.43	33.47	54.00	20.53	Average
2	2389.860	28.59	6.34	-2.98	31.95	54.00	22.05	Average
3	2402.000	28.62	6.36	17.97	52.95	54.00	1.05	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 : Jun. 20, 2006 Temperature : 25

EUT : Personal Digital Assistant or Pocket PC Humidity : 52%

Test Mode : Transmitting Mode, Frequency: 2480MHz (CH78) Test Voltage : DC 3.7V

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak *	2490.340	28.79	6.46	11.44	46.69	74.00	27.31
Average *	2483.600	28.77	6.45	-2.91	32.31	54.00	21.69

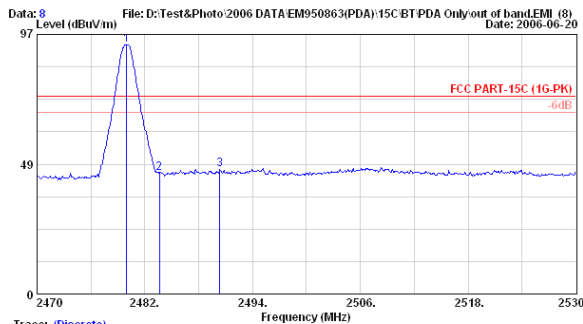
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Tai
 County, Taiwan R.O.C. Post Code 2444
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



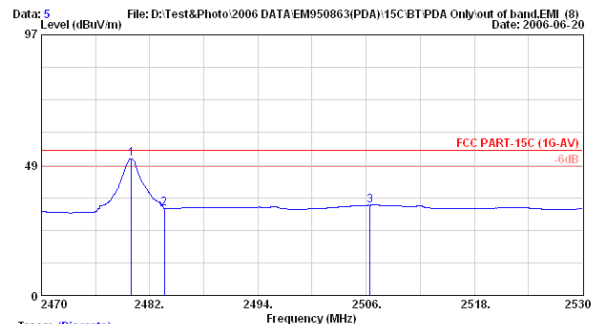
AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 8
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : DC 3.7V
 Test Mode : CH78 (Bluetooth) PDA Only
 M/N: HSTNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2480.000	28.76	6.44	58.02	93.22	74.00	-19.22	Peak
2	2483.600	28.77	6.45	9.90	45.12	74.00	28.88	Peak
3	2490.340	28.79	6.46	11.44	46.69	74.00	27.31	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. : 5
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : DC 3.7V
 Test Mode : CH78 (Bluetooth) PDA Only
 M/N: HSTNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2480.000	28.76	6.44	15.72	50.92	54.00	3.08	Average
2	2483.600	28.77	6.45	-2.91	32.31	54.00	21.69	Average
3	2506.420	28.83	6.48	-1.77	33.55	54.00	20.45	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 : Jun. 20, 2006 Temperature : 25

EUT : Personal Digital Assistant or Pocket PC Humidity : 52%

Test Mode : Transmitting Mode, Frequency: 2480MHz (CH78) Test Voltage : DC 3.7V

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak *	2483.600	28.77	6.45	8.98	44.20	74.00	29.80
Average *	2483.600	28.77	6.45	-1.32	33.90	54.00	20.10

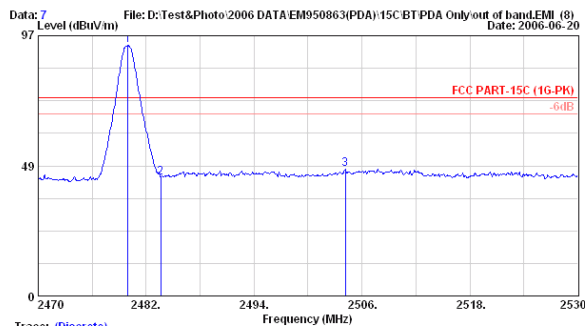
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX 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:ttmc@ttmc.com.tw



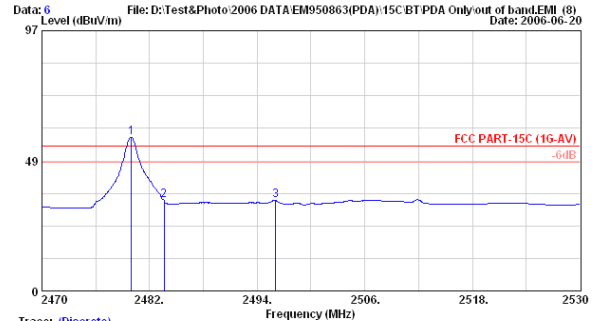
AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 7
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : DC 3.7V
 Test Mode : CH78 (Bluetooth) PDA Only
 M/N: H8TNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2480.000	28.76	6.44	58.12	93.32	74.00	-19.32	Peak
2	2483.600	28.77	6.45	8.98	44.20	74.00	29.80	Peak
3	2504.140	28.83	6.47	12.03	47.33	74.00	26.67	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. : 6
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8593EM 25°C/52% Engineer : Alvin_Yang
 EUT : Personal Digital Assistant or Pocket PC
 Power Rating : DC 3.7V
 Test Mode : CH78 (Bluetooth) PDA Only
 M/N: H8TNH-L12C-BT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2480.000	28.76	6.44	22.14	57.34	54.00	-3.34	Average
2	2483.600	28.77	6.45	-1.32	33.90	54.00	20.10	Average
3	2496.040	28.79	6.46	-1.50	33.75	54.00	20.25	Average

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

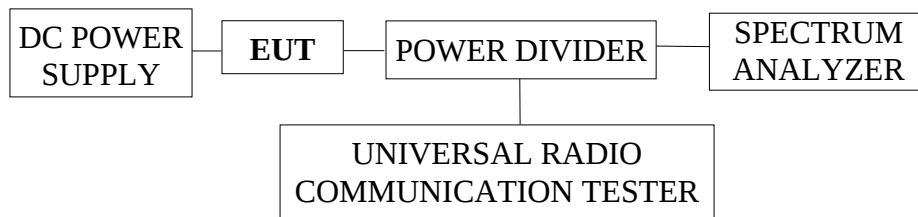
4. CARRIER FREQUENCY SEPARATION MEASUREMENT

4.1. 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 Monitor	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 24. 06'
2.	Universal Radio Communication Tester	R&S	CMU200	102280	Nov. 22, 05'	Nov. 21, 06'
3.	Power Divider	Anritsu	K240C	019728	May 26, 06'	May 25, 07'
4.	DC Power Supply	TOP WARD	3303A	721773	N/A	N/A

4.2. Block Diagram of Test Setup



EUT: Personal Digital Assistant or Pocket PC

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

- 4.4.1. Setup the EUT and simulator as shown on 4.2.
- 4.4.2. Turn on the power of all equipment.
- 4.4.3. EUT (Personal Digital Assistant or Pocket PC) through universal radio communication tester to control EUT on transmit and receive channels function during the testing. (Test software is BCM2045USB Test App.exe to set the EUT into test mode)

4.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the center frequency (2441MHz) was measure by spectrum analyzer with 30kHz RBW and 100kHz VBW. 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.

4.6. Test Results

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

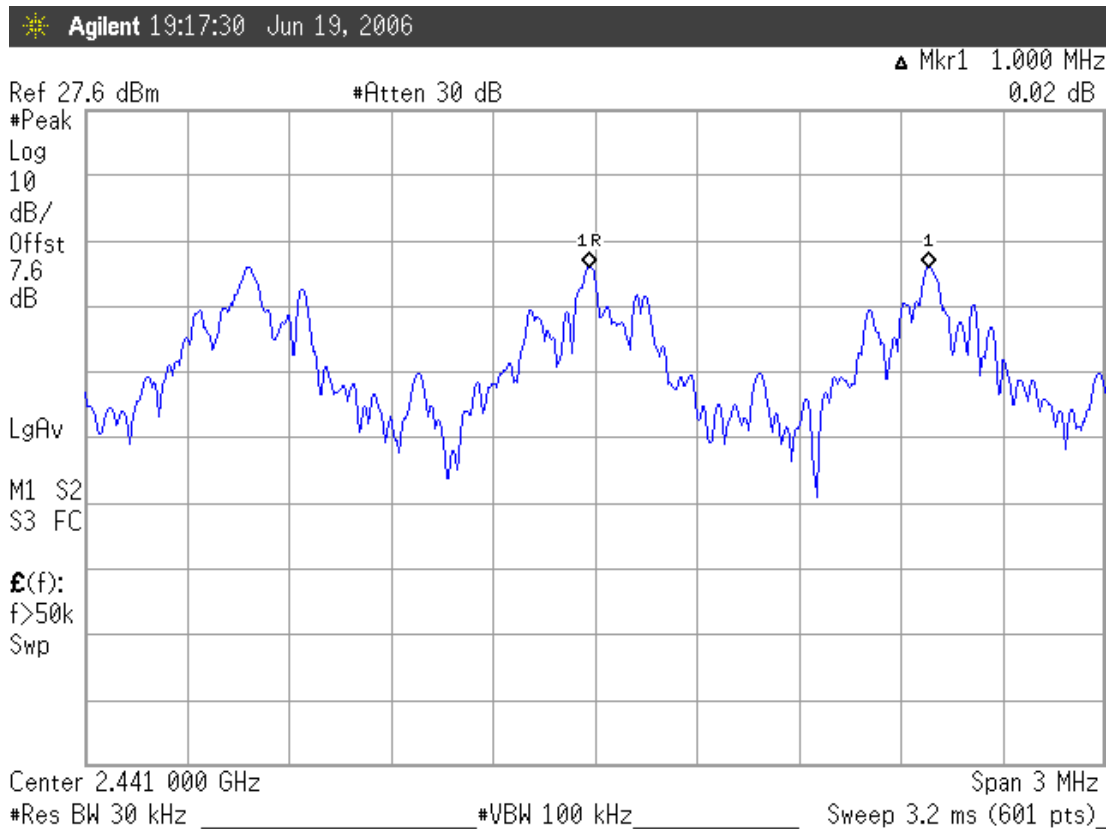
Test Date : Jun. 19, 2006 Temperature : 24 Humidity : 55 %

[Test Voltage is DC3.7V (via DC Power Supply)]

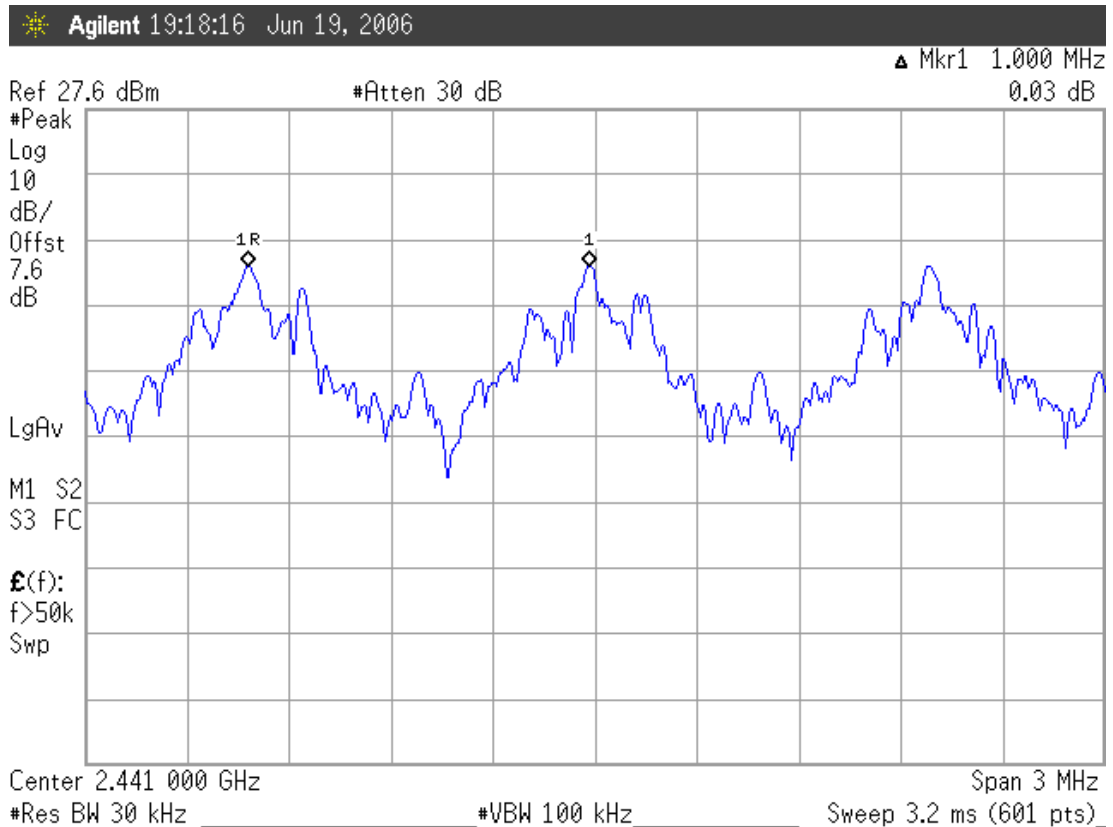
1. 2441MHz adjacent channel of right carrier frequency separation: 1.000MHz.
2. 2441MHz adjacent channel of left carrier frequency separation: 1.000MHz.

[Above values have met the requirement as specified in section 10.3: 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.]

4.6.1. Right Carrier Frequency Separation, 2441MHz



4.6.2. Left Carrier Frequency Separation, 2441MHz



5. 20dB BANDWIDTH MEASUREMENT

5.1. 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 Monitor	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 24, 06'
2.	Universal Radio Communication Tester	R&S	CMU200	102280	Nov. 22, 05'	Nov. 21, 06'
3.	Power Divider	Anritsu	K240C	019728	May 26, 06'	May 25, 07'
4.	DC Power Supply	TOP WARD	3303A	721773	N/A	N/A

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.

5.4. Operating Condition of EUT

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

5.5. 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. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.6. Test Results

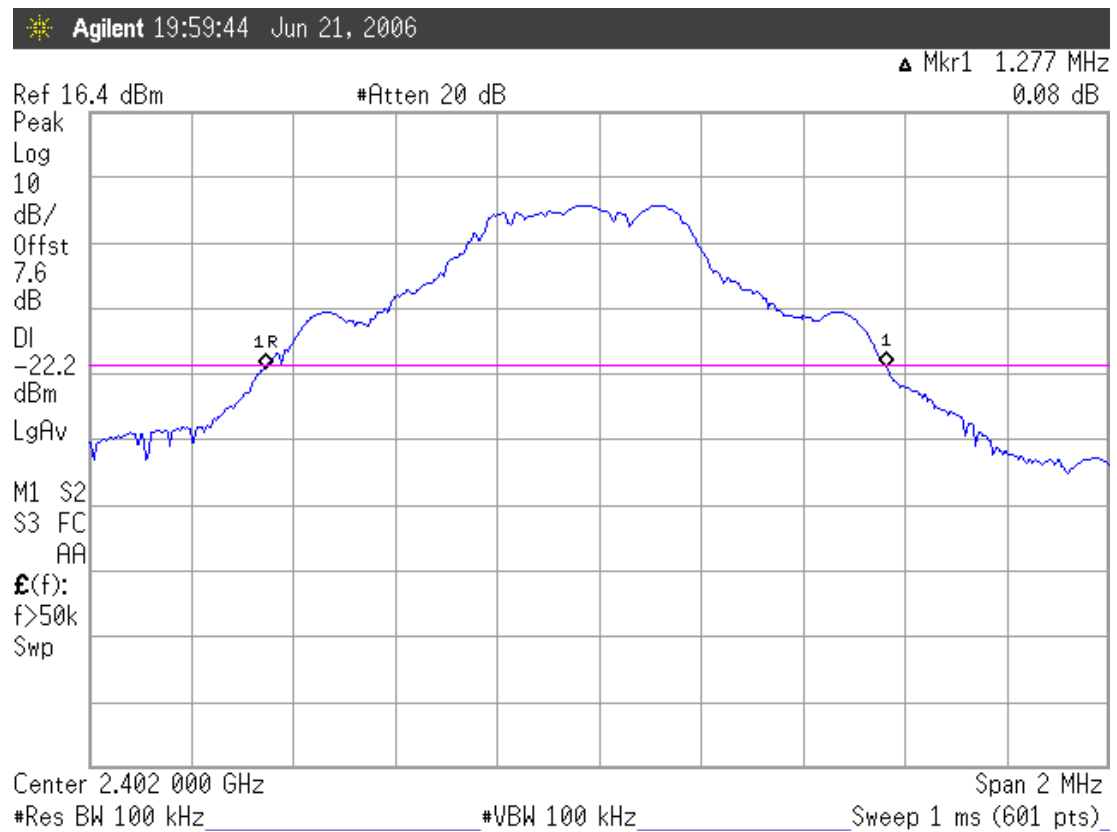
PASSED. All the test results are attached in next pages.

Test Date : Jun. 21, 2006 Temperature : 25 Humidity : 68 %

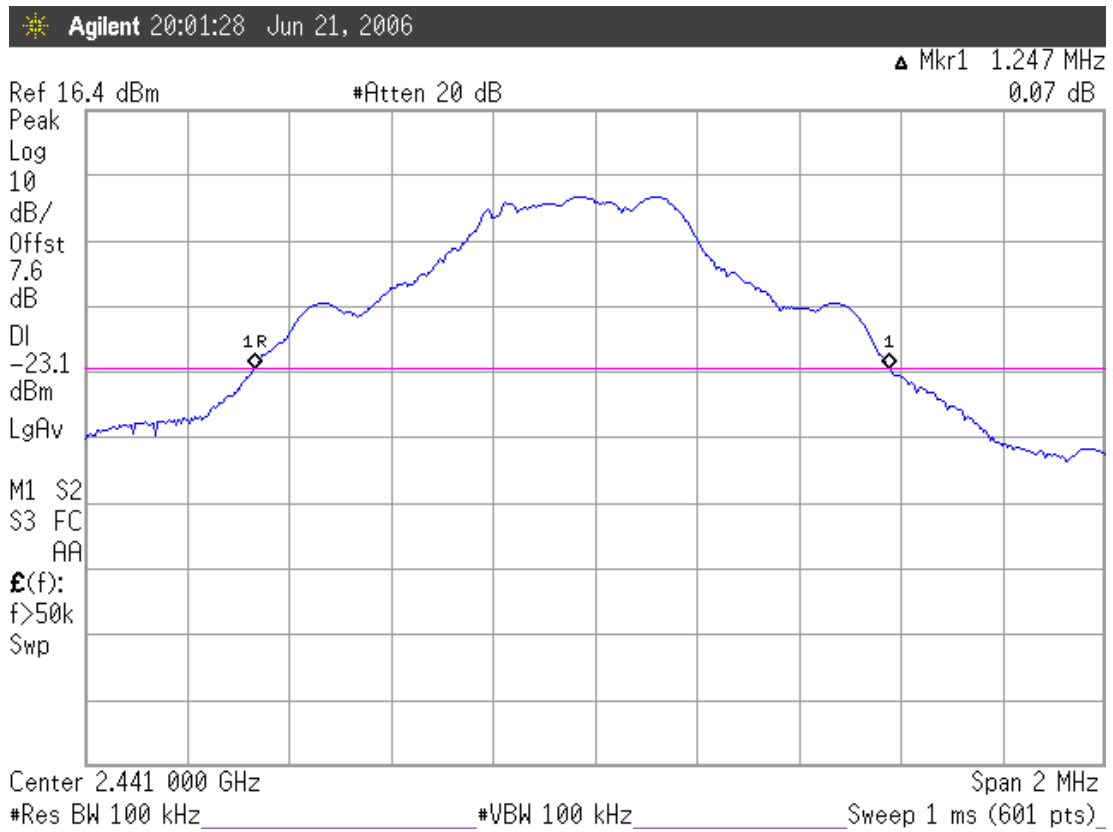
No.	Test Voltage	Channel	Frequency	20dB Bandwidth	2/3 (20dB Bandwidth)
1.	DC 3.7V	0	2402MHz	1.277MHz	0.851MHz
2.	(Via DC Power Supply)	39	2441MHz	1.247MHz	0.831MHz
3.		78	2480MHz	1.240MHz	0.827MHz

The maximum two-thirds of the 20dB bandwidth shall be at maximum 0.851MHz.

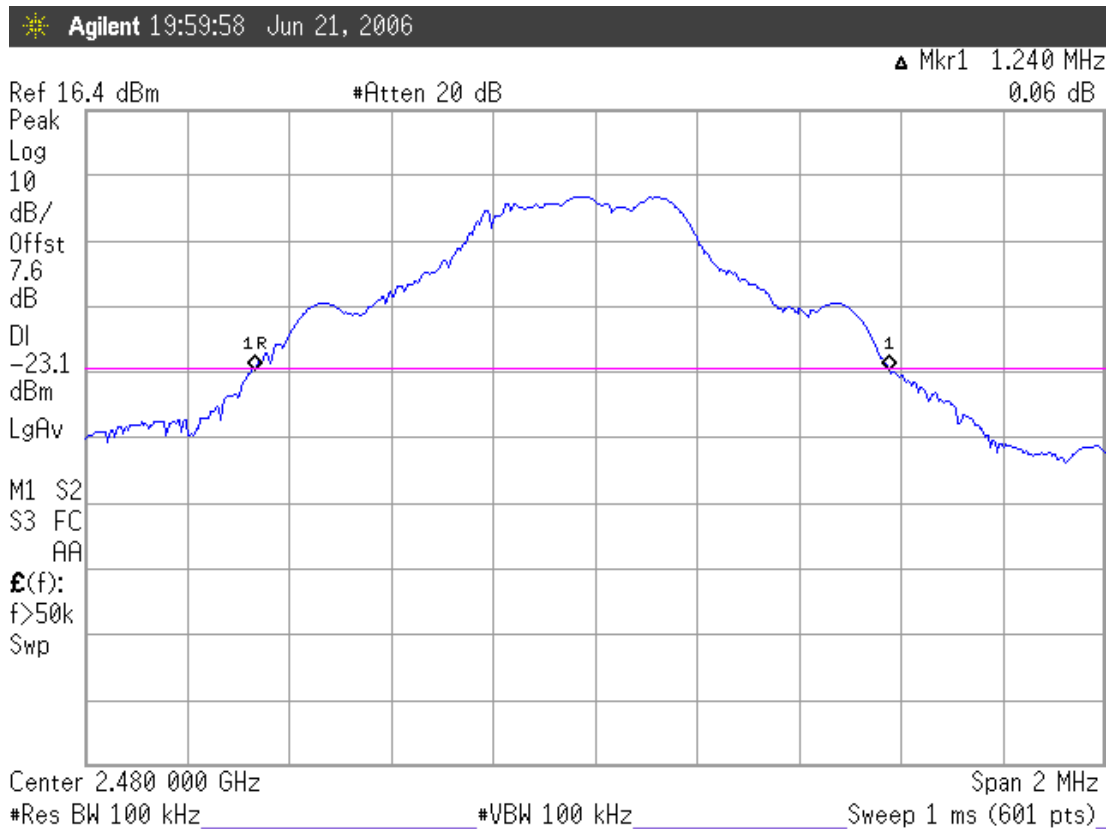
5.6.1. Channel 0, Frequency: 2402MHz



5.6.2. Channel 39, Frequency: 2441MHz



5.6.3. Channel 78, Frequency: 2480MHz



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 Monitor	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 24, 06'
2.	Universal Radio Communication Tester	R&S	CMU200	102280	Nov. 22, 05'	Nov. 21, 06'
3.	Power Divider	Anritsu	K240C	019728	May 26, 06'	May 25, 07'
4.	DC Power Supply	TOP WARD	3303A	721773	N/A	N/A

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 carrier frequency separation measurement which was listed in section 4.4.

6.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 1MHz RBW and 1MHz VBW. $VBW \geq RBW$; Span=zero span.

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

6.6. Test Results

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

Test Date : Jun. 19, 2006 Temperature : 24 Humidity : 55 %

[Test Voltage is DC3.7V (via DC Power Supply)]

Duty cycle: 79 channels*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 383.3us.

$10.13 \text{ time} * 31.6 \text{ seconds} * 0.3833\text{ms} = 122.6974\text{ms} (<400\text{ms})$

B. For each 5 seconds of 52 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

$52 \text{ channels} * 31.6 \text{ seconds} / 5 * 0.3833\text{ms} = 125.9677\text{ms} (<400\text{ms})$

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 1633us.

$5.1 \text{ time} * 31.6 \text{ seconds} * 1.633\text{ms} = 263.1743\text{ms} (<400\text{ms})$

B. For each 5 seconds of 26 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

$26 \text{ channels} * 31.6 \text{ seconds} / 5 * 1.633\text{ms} = 268.3346\text{ms} (<400\text{ms})$

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.

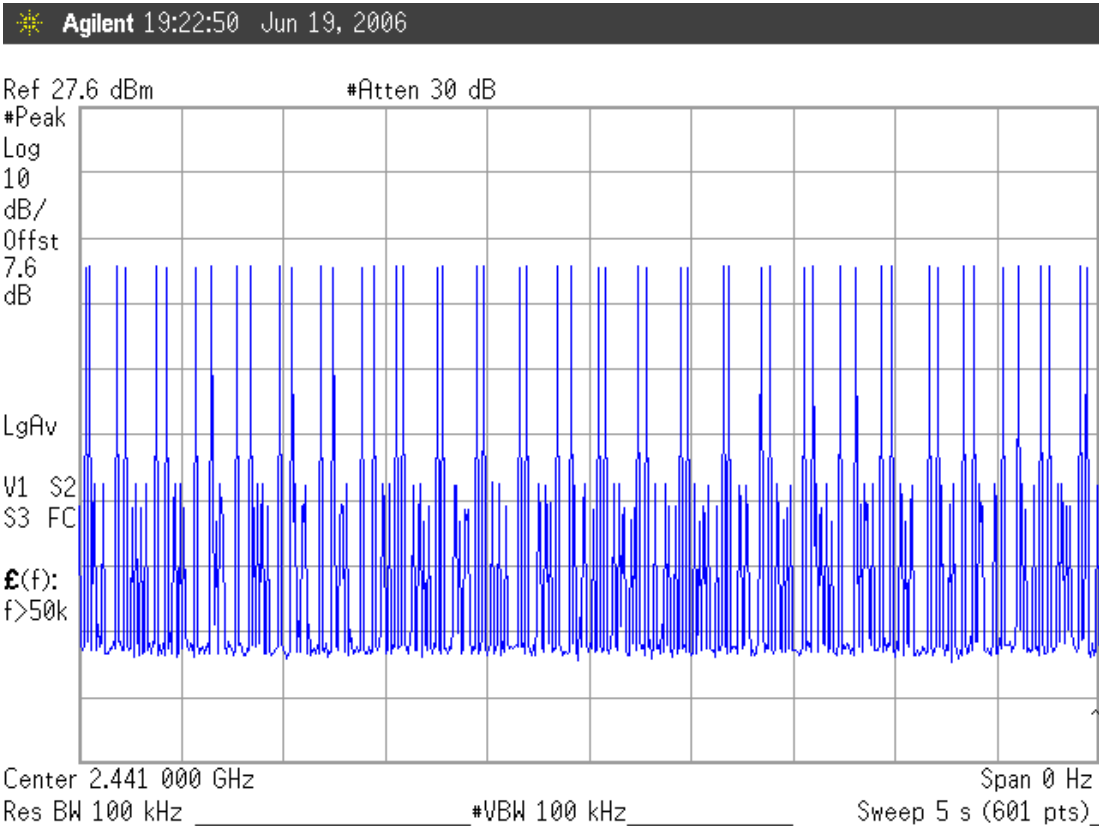
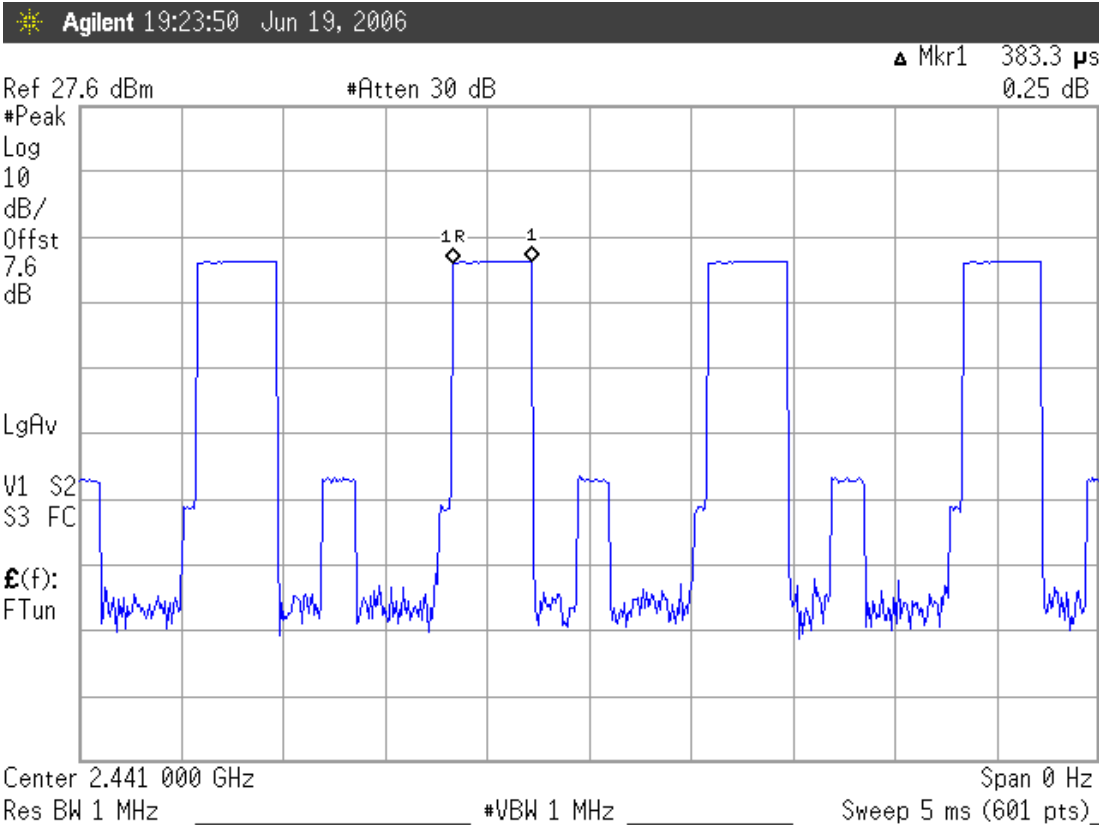
Each Tx-time per appearance is 2888us.

$3.37 \text{ time} * 31.6 \text{ seconds} * 2.888\text{ms} = 307.5489\text{ms} (<400\text{ms})$

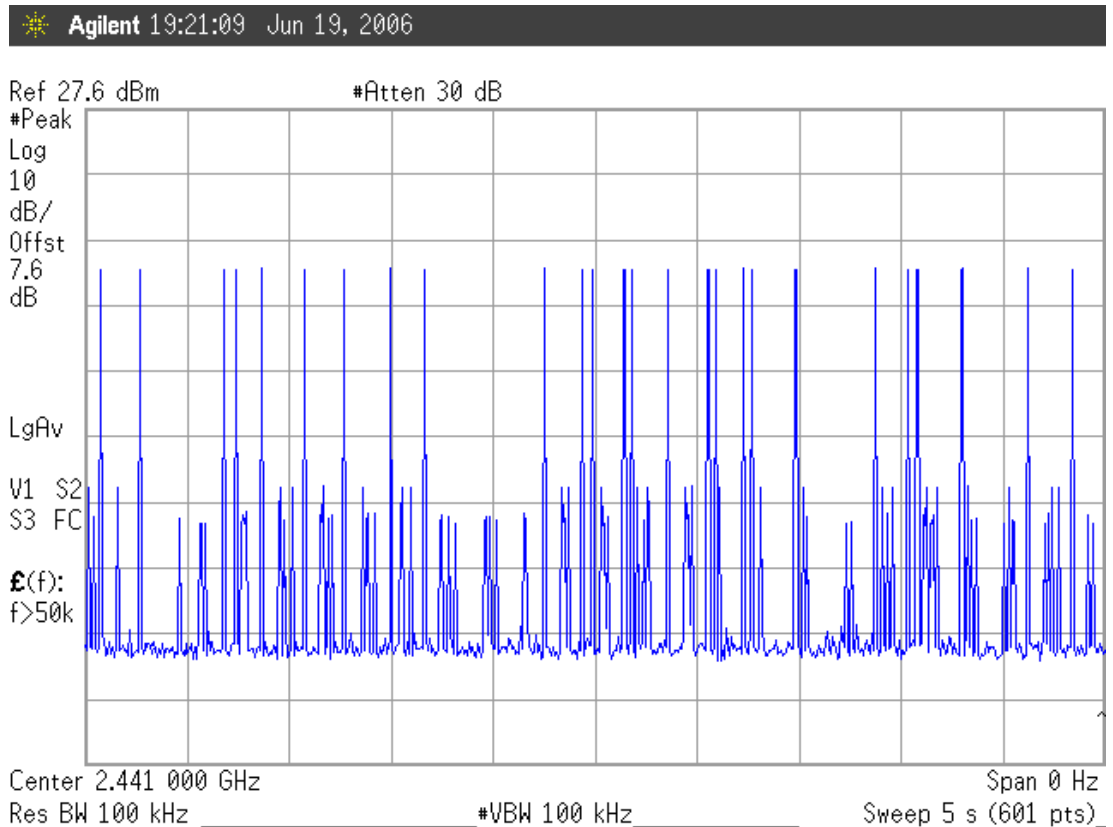
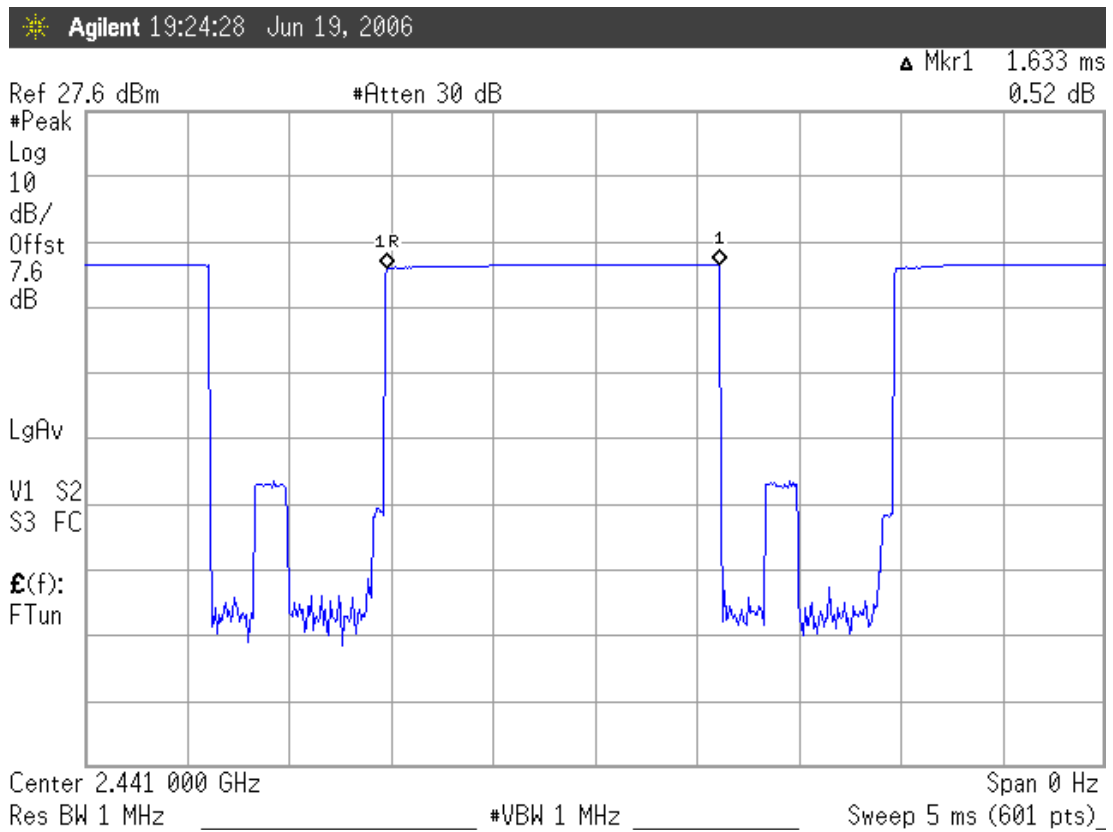
B. For each 5 seconds of 17 channels appearance, the longest time of occupancy for each of 31.6 seconds is:

$17 \text{ channels} * 31.6 \text{ seconds} / 5 * 2.888\text{ms} = 310.2867\text{ms} (<400\text{ms})$

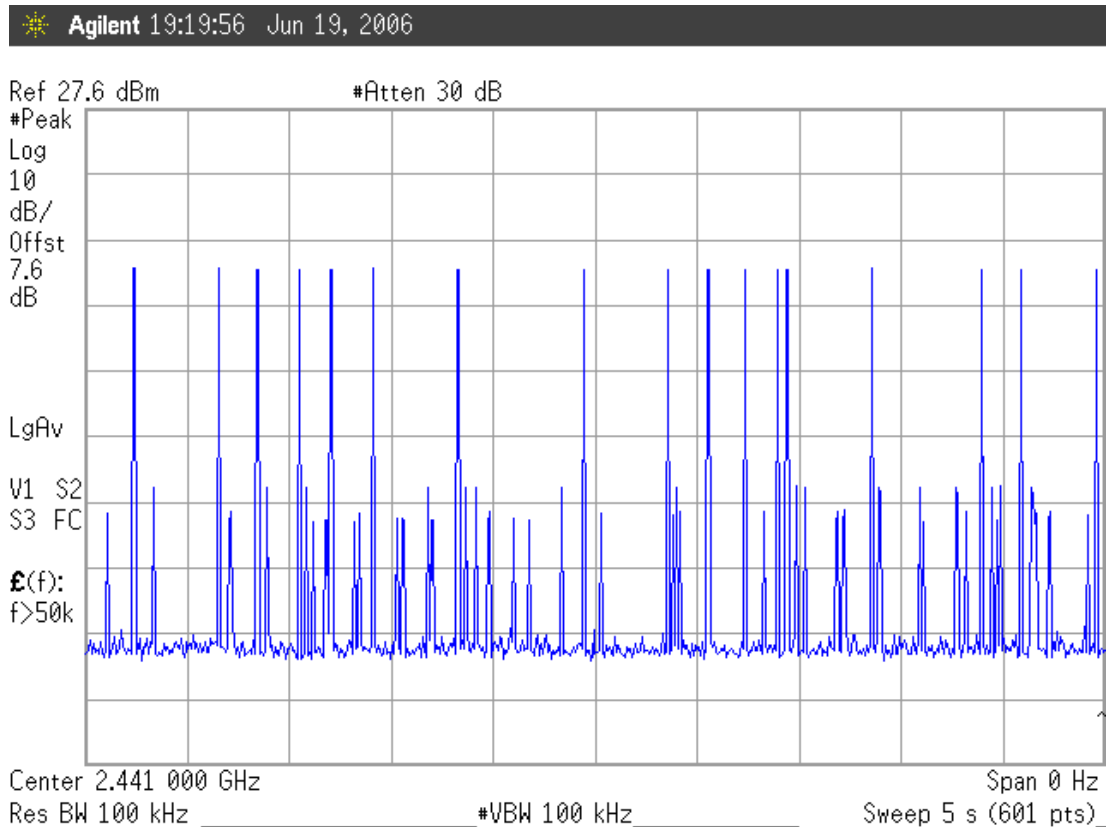
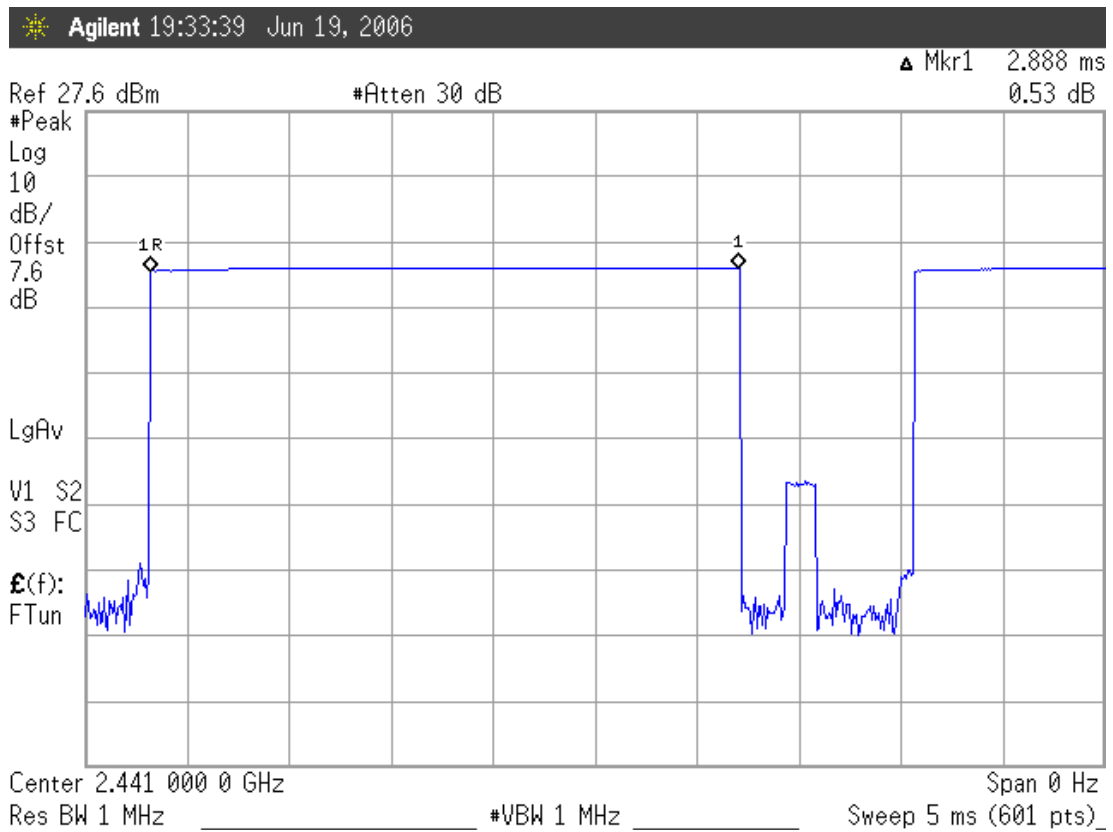
6.6.1. DH1



6.6.2. DH3



6.6.3. DH5



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 Monitor	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 24, 06'
2.	Universal Radio Communication Tester	R&S	CMU200	102280	Nov. 22, 05'	Nov. 21, 06'
3.	Power Divider	Anritsu	K240C	019728	May 26, 06'	May 25, 07'
4.	DC Power Supply	TOP WARD	3303A	721773	N/A	N/A

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

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

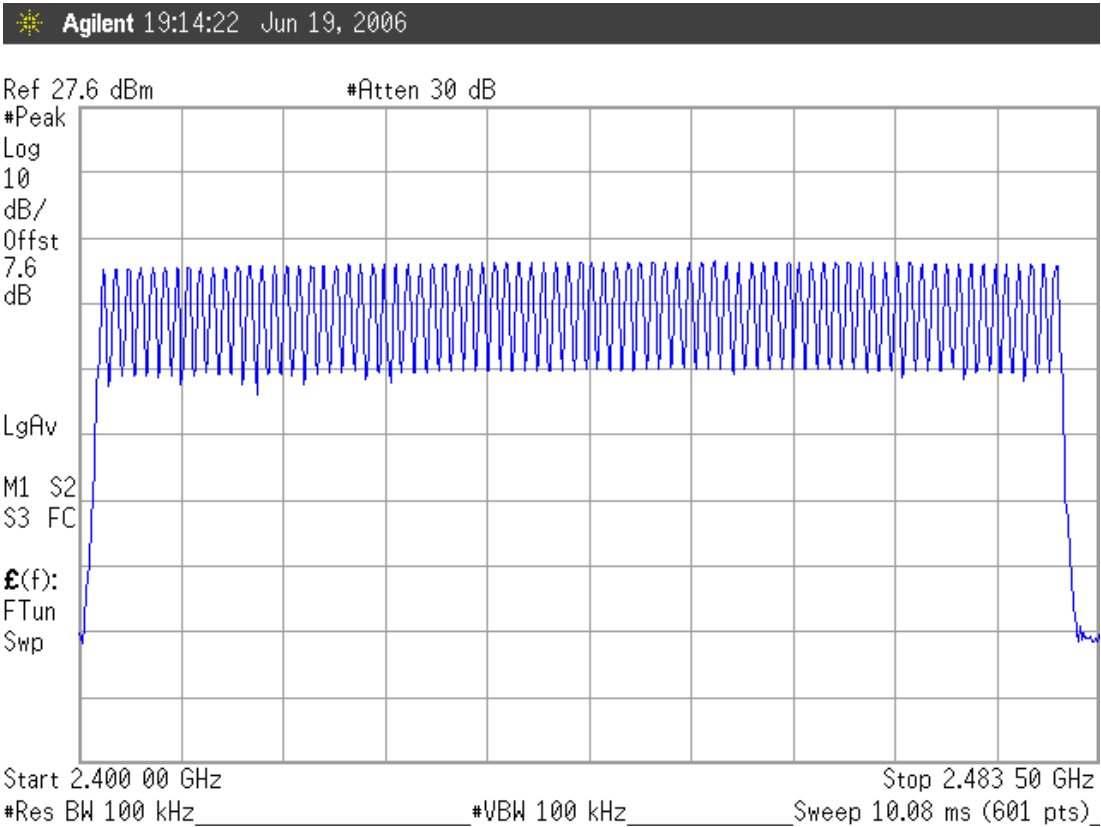
7.6. Test Results

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

Test Date : Jun. 19, 2006 Temperature : 24 Humidity : 55 %

[Test Voltage is DC3.7V (via DC Power Supply)]

The number hopping channel is 79.



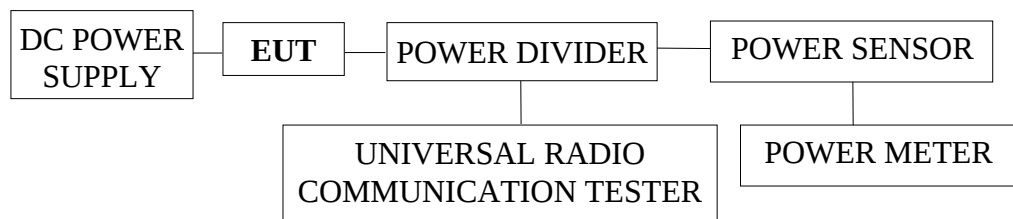
8. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

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.	Power Meter	Anritsu	ML2487A	6K000001563	Jan. 09, 06'	Jan. 08, 07'
2.	Power Sensor	Anritsu	MA2491A	030873	Jan. 09, 06'	Jan. 08, 07'
3.	Universal Radio Communication Tester	R&S	CMU200	102280	Nov. 22, 05'	Nov. 21, 06'
3.	Power Divider	Anritsu	K240C	019728	May 26, 06'	May 25, 07'
4.	DC Power Supply	TOP WARD	3303A	721773	N/A	N/A

8.2. Block Diagram of Test Setup



EUT: Personal Digital Assistant or Pocket PC

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

The Limits of maximum Peak Output Power for frequency hopping systems in 2400-2483.5MHz is: 1Watt. (30dBm)

8.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in 4.4 except the test set up replaced by section 8.2.

8.5. Test Procedure

The transmitter output was connected to the power sensor and record the reading of power meter.

8.6. Test Results

PASSED. All the test results are listed below.

Test Date : Jun. 19, 2006 Temperature : 24 Humidity : 55 %

No.	Test Voltage	Channel	Frequency	Peak Output Power	Limit
1.	DC 3.7V	0	2402MHz	3.12dBm	30dBm
2.	(Via DC Power	39	2441MHz	3.85dBm	30dBm
3.	Supply)	78	2480MHz	3.58dBm	30dBm

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 Monitor	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 24, 06'
2.	Universal Radio Communication Tester	R&S	CMU200	102280	Nov. 22, 05'	Nov. 21, 06'
3.	Power Divider	Anritsu	K240C	019728	May 26, 06'	May 25, 07'
4.	DC Power Supply	TOP WARD	3303A	721773	N/A	N/A

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.

9.6. Test Results

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

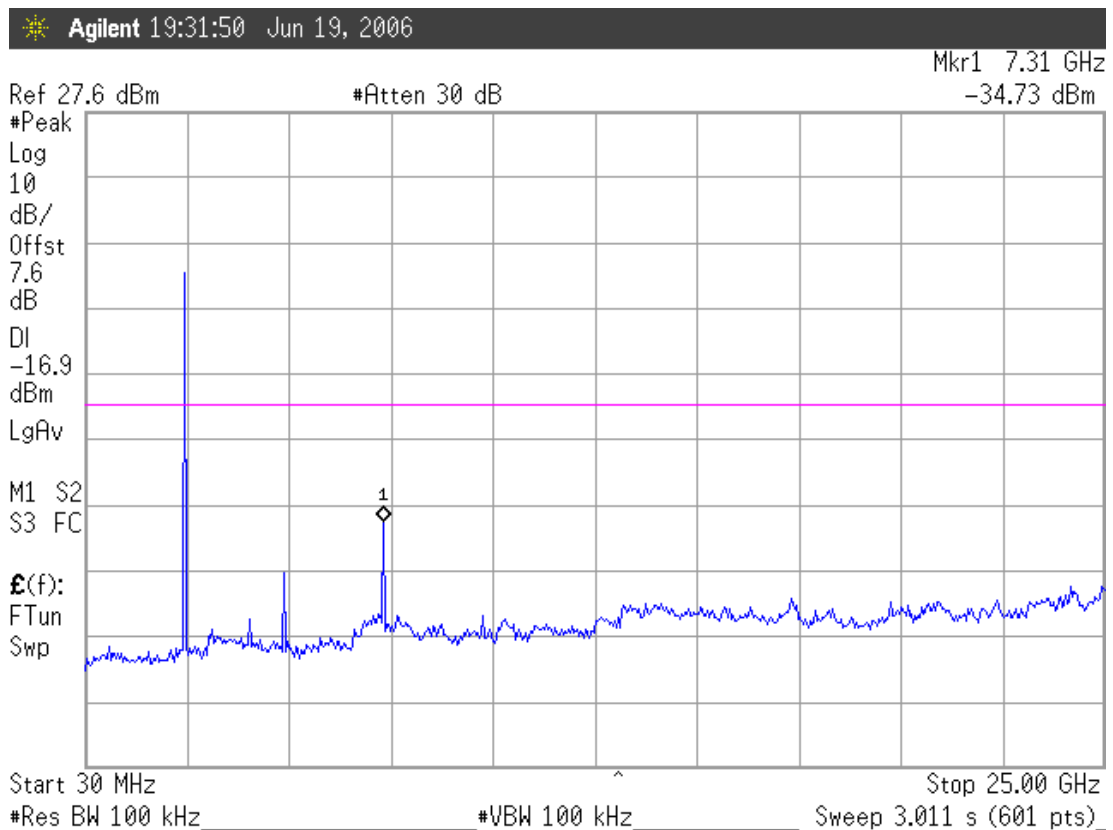
Test Date : Jun. 19, 2006 Temperature : 24 Humidity : 55 %

[Test Voltage is DC3.7V (via DC Power Supply)]

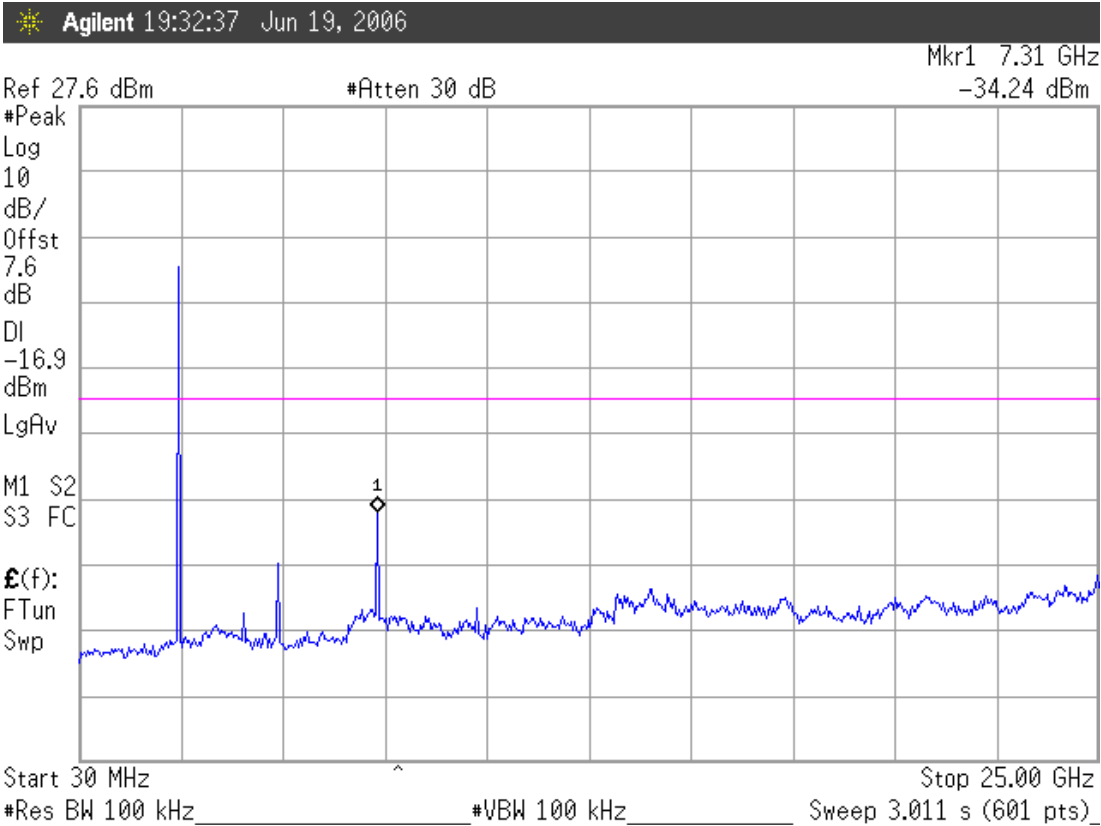
1. 2402MHz: During 30MHz~25GHz bandwidth. In the 2.4GHz, the -34.73dBm is max value that is lower than 20dB of primary channel.
2. 2441MHz: During 30MHz~25GHz bandwidth. In the 2.4GHz, the -34.24dBm is max value that is lower than 20dB of primary channel.
3. 2480MHz: During 30MHz~25GHz bandwidth. In the 2.4GHz, the -35.83dBm is max value that is lower than 20dB of primary channel.

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

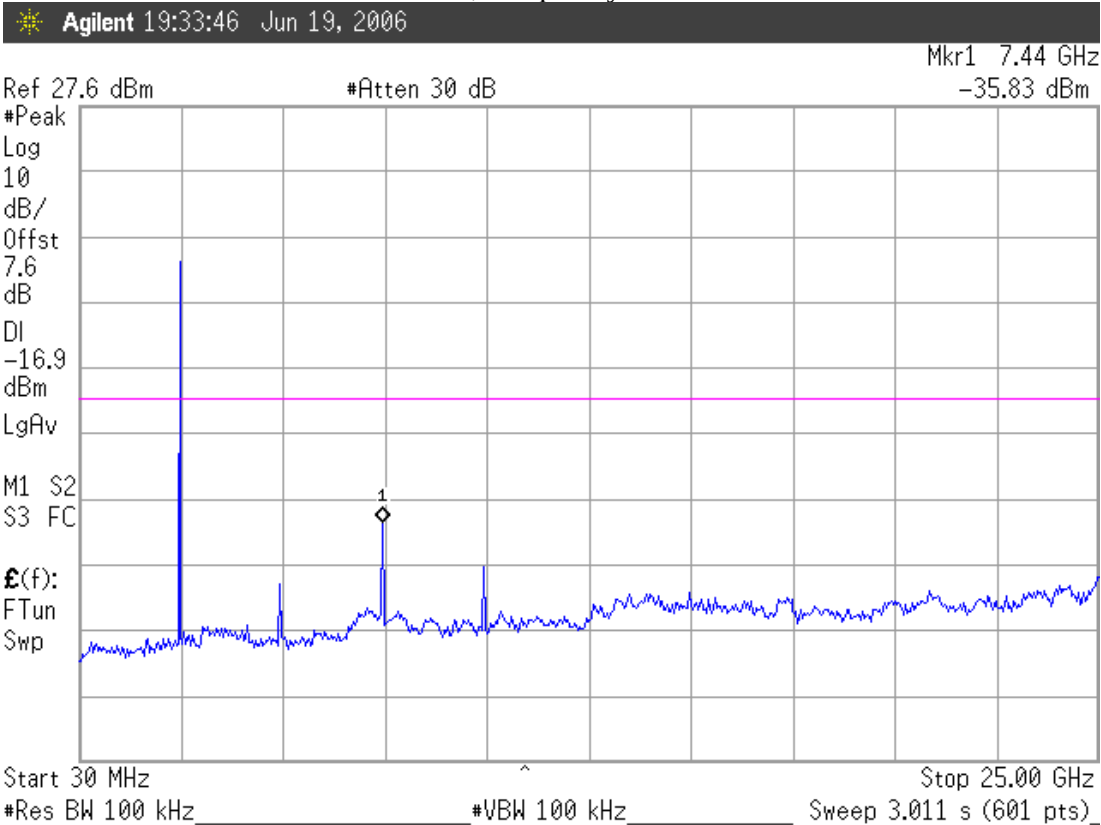
9.6.1. Channel 0, Frequency: 2402MHz



9.6.2. Channel 39, Frequency: 2441MHz



9.6.2.1. Channel 78, Frequency: 2480MHz



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 Monitor	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 24. 06'
2.	Universal Radio Communication Tester	R&S	CMU200	102280	Nov. 22, 05'	Nov. 21, 06'
3.	Power Divider	Anritsu	K240C	019728	May 26, 06'	May 25, 07'
4.	DC Power Supply	TOP WARD	3303A	721773	N/A	N/A

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 carrier frequency separation 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.

10.6.Test Results

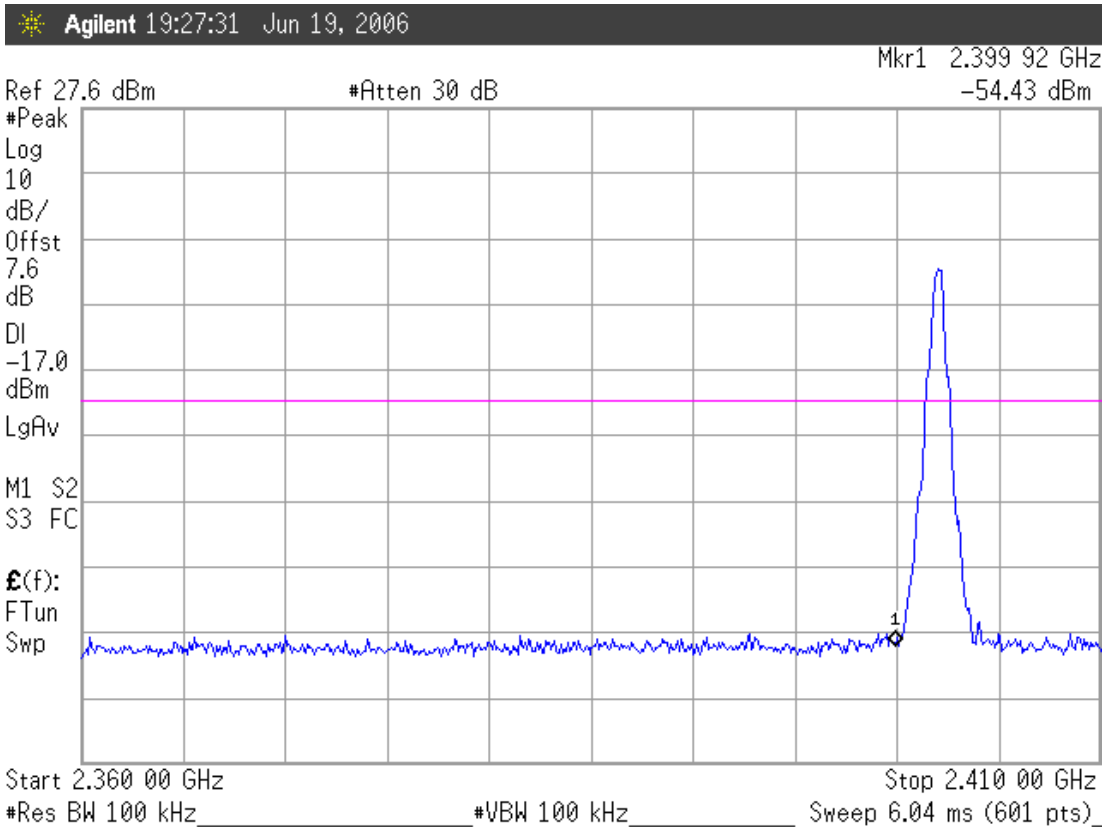
PASSED. The testing data was attached in the next pages.

Test Date : Jun. 19, 2006 Temperature : 24 Humidity : 55 %

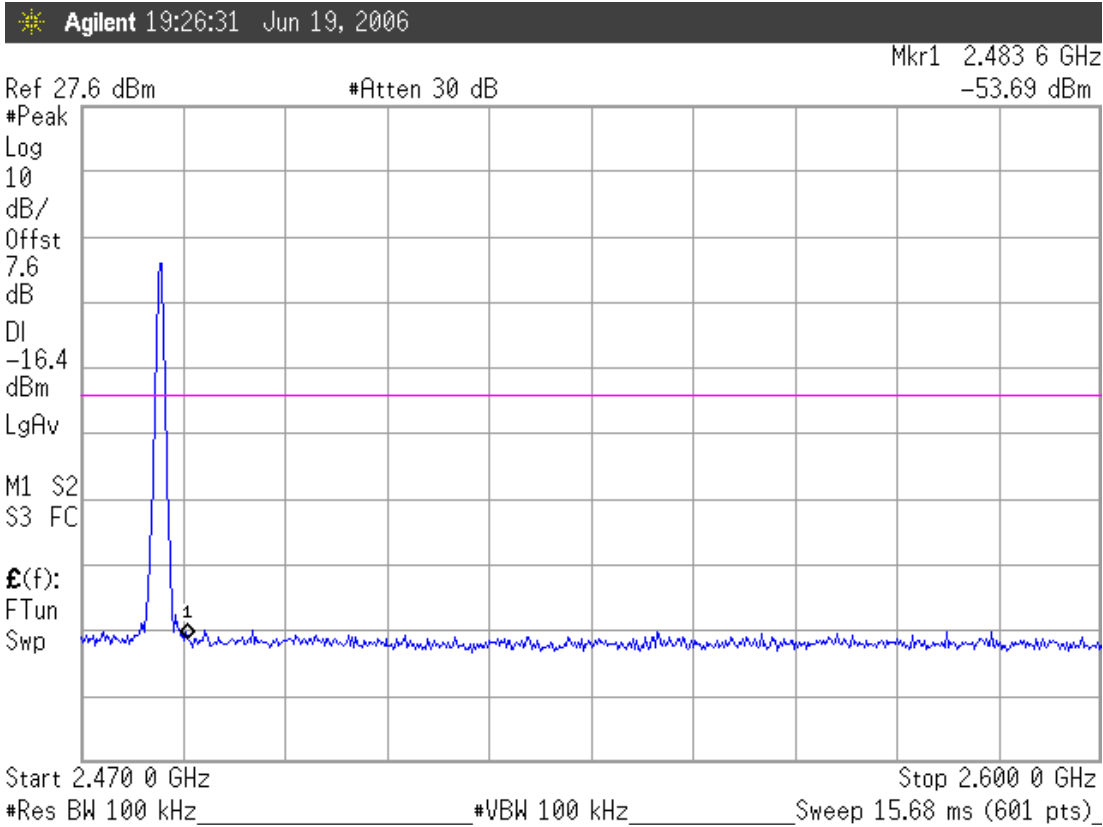
[Test Voltage is DC3.7V (via DC Power Supply)]

1. Upper Band edge : The highest emission level is – 54.43dBm on 2.39992GHz.
2. Below Band edge: The highest emission level is – 53.69dBm on 2.4836GHz.

10.6.1. Below Band edge



10.6.2. Upper Band edge



11.DEVIATION TO TEST SPECIFICATIONS

【NONE】