

Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 1 of 41

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Blood Glucose plus Blood Pressure

Monitoring System

Brand Name: N/A

Model Name: TD-3260

Model Diffence: TD-326x(x=0~9) for difference customer

FCC ID: TM7326000M00

ER/2007/C0016 **Report No.:**

Issue Date: Feb. 25, 2008

§15.249 FCC Rule Part:

Taidoc Technology Corp. **Prepared for:**

6F, No.127, Wugong 2nd Rd., Wugu

Township, Taipei County, Taiwan

SGS Taiwan Ltd. Prepared by:

Electronics & Communication

Laboratory

No. 134, Wu Kung Rd., Wuku Industrial

Zone, Taipei County, Taiwan.



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Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 2 of 41

VERIFICATION OF COMPLIANCE

Applicant: Taidoc Technology Corp.

6F, No.127, Wugong 2nd Rd., Wugu Township, Taipei County, Taiwan

Product Description: Blood Glucose plus Blood Pressure Monitoring System

Brand Name: N/A

FCC ID Number: TM7326000M00

Model No.: TD-3260

Model Difference: TD-326x($x=0\sim9$) for difference customer

File Number: ER/2007/C0016

Date of test: Dec. 01, 2007 ~ Feb. 12, 2008

Date of EUT Received: Nov. 30, 2007

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory

The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.249.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Jason Whe	Date	Feb. 25, 2008	
•	Jason Wu/Asst. Supervisor	_		
Prepared By:	Alex Hsieh	Date	Feb. 25, 2008	
·	Alex Hsieh/Sr. Engineer			
Approved By:	Timent du	Date	Feb. 25, 2008	
-	Vincent Su / Manager			



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 3 of 41

Version

Version No.	Date
00	Feb. 25, 2008
01	Mar. 10, 2008



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 4 of 41

Table of Contents

1.	GENERAL INFORMATION	5
1.1	PRODUCT DESCRIPTION	5
1.2	RELATED SUBMITTAL(S) / GRANT (S)	
1.3	TEST METHODOLOGY	5
1.4	TEST FACILITY	5
1.5	SPECIAL ACCESSORIES	5
1.6	EQUIPMENT MODIFICATIONS	5
2.	SYSTEM TEST CONFIGURATION	6
2.1	EUT CONFIGURATION	6
2.2	EUT Exercise	6
2.3	TEST PROCEDURE	6
2.4	LIMITATION	7
2.5	CONFIGURATION OF TESTED SYSTEM	9
3.	SUMMARY OF TEST RESULTS	10
4.	CONDUCTED EMISSIONS TEST	11
4.1	MEASUREMENT PROCEDURE:	11
4.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	11
4.3	MEASUREMENT EQUIPMENT USED:	12
4.4	MEASUREMENT RESULT:	12
5.	RADIATED EMISSION TEST	15
5.1	MEASUREMENT PROCEDURE	15
5.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	15
5.3	MEASUREMENT EQUIPMENT USED:	16
5.4	FIELD STRENGTH CALCULATION	16
5.5	MEASUREMENT RESULT	17
6.	26 DB BAND WIDTH MEASUREMENT	26
6.1	MEASUREMENT PROCEDURE	26
6.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	26
6.3	MEASUREMENT EQUIPMENT USED:	26
6.4	MEASUREMENT RESULTS:	26
РНОТ	OGRAPHS OF SET UP	29
РНОТ	OGRAPHS OF EUT	32

Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 5 of 41

1. GENERAL INFORMATION

1.1 Product Description

The Taidoc Technology Corp., Model: TD-3260 (referred to as the EUT in this report) is Blood Glucose plus Blood Pressure Monitoring System, the major technical descriptions of EUT is described as following:

A). Operation Frequency: 2.4GHz IEEE802.15.4 compliant

B). Modulation Type: Offset / QPSK

C). Power Supply: Four 1.5V AA alkaline batteries

D). Antenna Designation: Chip Antenna, 4.1dBi, Non-User Replaceable (Fixed)

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: <u>TM7326000M00</u> filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 94644.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 6 of 41

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the engineering operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 7 of 41

2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency	Conducted Limit (dBuV)				
(MHz)	Quasi-Peak	Average			
0.15 - 0.5	66 - 56	56 - 46			
0.5 - 5	56	46			
5 - 30	60	50			

(2) Radiated Emission 15.249(a)

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)
902 - 928	50 mV/m	500 uV/m	3
	(94dBuV/m)	(54dBuV/m)	
2400 – 2483.5	50 mV/m	500 uV/m	3
	(94dBuV/m)	(54dBuV/m)	
5725 – 5875	50 mV/m	500 uV/m	3
	(94dBuV/m)	(54dBuV/m)	
24.0 – 24.25 GHz	250 mV/m	2500 uV/m	3
	(107.95dBuV/m)	(67.95dBuV/m)	



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 8 of 41

(3) Radiated Emission15.249 (d)

Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209 as below, whichever is the lesser attenuation.

Frequency	Field strength	Distance (m)	Field strength at 3m
(MHz)	μV/m		dBμV/m
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

(4) Radiated Emission 15.249(e)

For frequencies above 1000MHz, the above field strength limits are based on average limits. The peak filed strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

Remark: 1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205
- 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of $\xi 15.205$, then the general radiated emission limits in $\xi 15.209$ apply.



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 9 of 41

2.5 Configuration of Tested System

Fig. 2-1 Configuration of TX

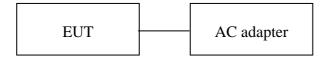


Table 2-2 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.	Data Cable	Power Cord
1.	AC adapter	N/A	GS2U-006-060	N/A	N/A	N/A	N/A

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 10 of 41

3. Summary Of Test Results

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	Compliant
§15.249(a)(e)	Radiated Emission	Compliant
§15.249(d)	26dB band width Measurement	Compliant

Description of test modes

The EUT has been tested under engineering testing condition.

EUT is staying in continuous transmitting mode is programmed.

Channel low (2405MHz), mid (2440MHz) and high (2480MHz) with highest data rate are chosen for full testing.

Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

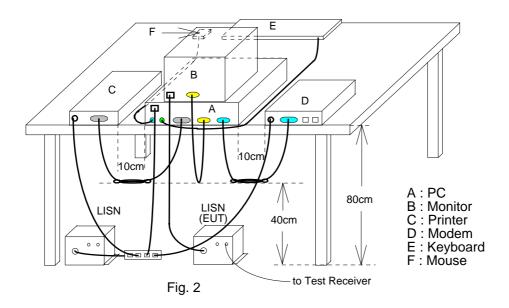
Page: 11 of 41

4. Conducted Emissions Test

4.1 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

4.2 Test SET-UP (Block Diagram of Configuration)





Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 12 of 41

4.3 Measurement Equipment Used:

	Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
EMC Analyzer	HP	8594EM	3624A00203	09/02/2007	09/03/2008				
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2007	06/10/2008				
Transient Limiter	HP	11947A	3107A02062	09/02/2007	09/03/2008				
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2007	12/30/2008				
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2007	12/23/2008				
Coaxial Cables	N/A	No. 3, 4	N/A	12/01/2007	12/01/2008				

4.4 Measurement Result:

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.



Report No.: ER/2007/C0016 **Issue Date: Feb. 25, 2008**

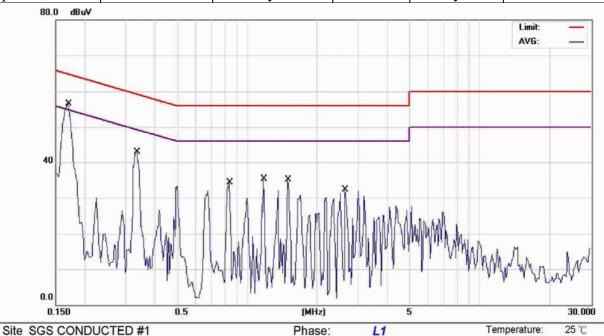
Page: 13 of 41

Humidity:

59 %

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode: Test Date: OPERATION Dec. 25, 2007 Temperature: 24 Humidity: 56% Test By: Jason



L1 AC 110V/60Hz

Limit: CISPR11 Class B Conduction(QP)

EUT: 無線血壓血糖計 M/N: TD-3260 Note: opeartion

No. M	lk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1700	54.50	0.72	55.22	64.96	-9.74	QP	
2 *		0.1700	51.40	0.72	52.12	54.96	-2.84	AVG	
3		0.3350	42.81	0.02	42.83	59.33	-16.50	QP	
4		0.8400	34.39	0.01	34.40	56.00	-21.60	QP	
5		1.1800	35.36	0.02	35.38	56.00	-20.62	QP	
6		1.5000	34.99	0.03	35.02	56.00	-20.98	QP	
7		2.6400	32.22	0.05	32.27	56.00	-23.73	QP	

Power:



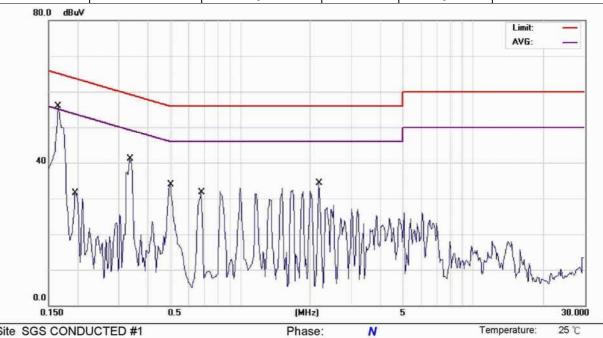
Report No.: ER/2007/C0016 **Issue Date: Feb. 25, 2008**

Page: 14 of 41

Humidity:

59 %

Operation Mode:	OPERATION			Test Date:	Dec. 25, 2007
Temperature:	24 °C	Humidity:	56%	Test By:	Jason



Power:

N AC 110V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR11 Class B Conduction(QP)

EUT: 無線血壓血糖計 M/N: TD-3260 Note: opeartion

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1650	53.06	0.83	53.89	65.21	-11.32	QP	
2 *	0.1650	48.06	0.83	48.89	55.21	-6.32	AVG	
3	0.1950	31.33	0.14	31.47	63.82	-32.35	QP	
4	0.3350	40.99	0.02	41.01	59.33	-18.32	QP	
5	0.5000	33.88	0.02	33.90	56.00	-22.10	QP	
6	0.6800	31.60	0.02	31.62	56.00	-24.38	QP	
7	2.1800	34.24	0.04	34.28	56.00	-21.72	QP	



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 15 of 41

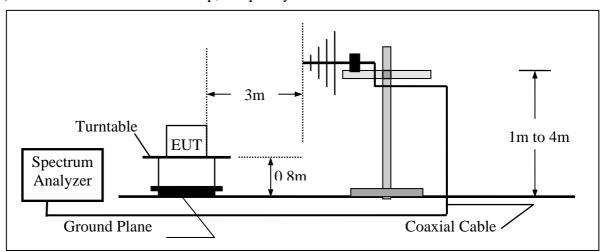
5. Radiated Emission Test

5.1 Measurement Procedure

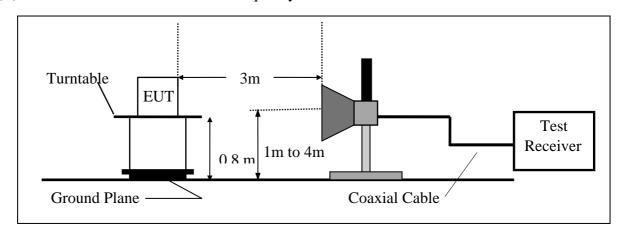
- 1. The EUT was placed on a turntable that is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 16 of 41

5.3 Measurement Equipment Used:

	966 Chamber										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.						
ТҮРЕ		NUMBER	NUMBER	CAL.							
Spectrum Analyzer	R&S	FSP 40	100034	05/27/2007	05/26/2008						
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2007	08/27/2008						
Bilog Antenna	SCHWAZBECK	VULB9160	152	06/03/2007	06/02/2008						
Bilog Antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008						
Horn Antenna	SCHWAZBECK	BBHA 9170	184/185	07/04/2007	07/03/2008						
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008						
Pre-Amplifier	HP	8449B	3008A00578	02/26/2008	02/25/2009						
Turn Table	HD	DT420	N/A	N.C.R	N.C.R						
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R						
Controller	HD	HD100	N/A	N.C.R	N.C.R						
Low Loss Cable	HUBER+SUHNE R	SUCOFLEX 104PEA-10M	10m	10/09/2007	10/08/2008						
Low Loss Cable	HUBER+SUHNE R	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008						
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008						

5.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 17 of 41

5.5 Measurement Result

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX Test Date Dec. 25, 2007

Fundamental Frequency CH Low / 2405MHz Test By Jason
Temperature 25 Pol Ver./Hor

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
36.79	V	Peak	46.42	-14.36	32.06	40.00	-7.94
61.04	V	Peak	50.79	-14.75	36.04	40.00	-3.96
96.93	V	Peak	46.22	-17.16	29.06	43.50	-14.44
159.98	V	Peak	42.42	-13.40	29.02	43.50	-14.48
177.44	V	Peak	42.66	-14.38	28.28	43.50	-15.22
198.78	V	Peak	45.48	-15.56	29.92	43.50	-13.58
30.00	Н	Peak	51.78	-14.97	36.81	40.00	-3.19
62.98	Н	Peak	44.32	-14.87	29.45	40.00	-10.55
159.98	Н	Peak	41.83	-13.40	28.43	43.50	-15.07
184.23	Н	Peak	44.40	-14.78	29.62	43.50	-13.88
191.99	Н	Peak	46.40	-15.23	31.17	43.50	-12.33
198.78	Н	Peak	46.03	-15.56	30.47	43.50	-13.03

- (1) Measuring frequencies from 30 MHz to the 1GHz \circ
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz, VBW=300KHz.



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 18 of 41

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX Test Date Dec. 25, 2007

Fundamental Frequency CH Mid / 2440MHz Test By Jason
Temperature 25 Pol Ver./Hor

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
36.79	V	Peak	46.22	-14.36	31.86	40.00	-8.14
62.98	V	Peak	45.20	-14.85	30.35	40.00	-9.65
96.93	V	Peak	46.66	-17.16	29.50	43.50	-14.00
159.98	V	Peak	40.95	-13.40	27.55	43.50	-15.95
177.44	V	Peak	42.51	-14.38	28.13	43.50	-15.37
198.78	V	Peak	45.85	-15.56	30.29	43.50	-13.21
30.00	Н	Peak	51.41	-14.97	36.44	40.00	-3.56
62.98	Н	Peak	43.68	-14.85	28.83	40.00	-11.17
159.98	Н	Peak	42.64	-13.40	29.24	43.50	-14.26
184.23	Н	Peak	44.31	-14.78	29.53	43.50	-13.97
191.99	Н	Peak	46.69	-15.23	31.46	43.50	-12.04
198.78	Н	Peak	46.65	-15.56	31.09	43.50	-12.41

- (1) Measuring frequencies from 30 MHz to the 1GHz •
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz, VBW=300KHz.



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 19 of 41

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX Test Date Dec. 25, 2007

Fundamental Frequency CH High / 2480MHz Test By Jason
Temperature 25 Pol Ver./Hor

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
38.73	V	Peak	48.99	-13.84	35.15	40.00	-4.85
62.98	V	Peak	43.91	-14.85	29.06	40.00	-10.94
96.63	V	Peak	47.07	-17.16	29.91	43.50	-13.59
159.98	V	Peak	42.24	-13.40	28.84	43.50	-14.66
177.44	V	Peak	42.71	-14.38	28.33	43.50	-15.17
198.78	V	Peak	45.50	-15.56	29.94	43.50	-13.56
30.00	Н	Peak	50.83	-14.97	35.86	40.00	-4.14
62.98	Н	Peak	43.75	-14.85	28.90	40.00	-11.10
159.98	Н	Peak	41.75	-13.40	28.35	43.50	-15.15
184.23	Н	Peak	44.62	-14.78	29.84	43.50	-13.66
191.99	Н	Peak	46.67	-15.23	31.44	43.50	-12.06
198.78	Н	Peak	46.05	-15.56	30.49	43.50	-13.01

- (1) Measuring frequencies from 30 MHz to the 1GHz •
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz, VBW=300KHz.



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 20 of 41

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX Test Date: Dec. 25, 2007

Fundamental Frequency: CH Low / 2405MHz

Test By: Jason

Temperature: 25

Pol: Vertical

Humidity: 65 %

		Peak	\mathbf{AV}		Actual	Actual	Peak Limit	AV Limit		
Freq.	Ant.Pol	Reading	Reading	Factor	Peak FS	AV FS	at 3m	at 3m	Margin	
(MHz)	H/V	(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m	(dBuV/m)	(dBuV/m)	(dB)	
2405.0	V	74.99		-1.30	73.69		114.00	94.00	-20.31	F
1598.0	V	40.13		-5.48	34.65		74.00	54.00	-19.35	S
4810.0	V	45.45		6.02	51.47		74.00	54.00	-2.53	Η
7215.0	V						74.00	54.00		Η
9620.0	V						74.00	54.00		Η
12025.0	V						74.00	54.00		Η
14430.0	V						74.00	54.00		Η
16835.0	V						74.00	54.00		Η
19240.0	V						74.00	54.00		Н
21645.0	V						74.00	54.00		Н
24050.0	V						74.00	54.00		Η
2400.0	V	33.96		-1.36	32.60		74.00	54.00	-21.40	S

- (1) Measuring frequencies from 30MHz to the 10tth of fundamental frequency \circ
- (2) Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB
- (3) "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) Spectrum Peak mode IF bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- (6) Spectrum AV mode IF B bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 21 of 41

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX Test Date: Dec. 25, 2007

Fundamental Frequency: CH Low / 2405MHz

Test By: Jason

Temperature: 25

Pol: Horizontal

Humidity: 68 %

		Peak	AV		Actual	Actual	Peak Limit	AV Limit		
Freq.	Ant.Pol.	Reading	Reading	Factor	Peak FS	AV FS	at 3m	at 3m	Margin	
(MHz)	H/V	(dBuV)	(dBuV)	(dB)	(dBuV/m)	dBuV/m	(dBuV/m)	(dBuV/m)	(dB)	
2405.0	Н	83.49		-1.30	82.19		114.00	94.00	-11.81	F
1598.0	Н	45.19		-5.48	39.71		74.00	54.00	-14.29	S
3203.5	Н	38.38		1.07	39.45		74.00	54.00	-14.55	S
4810.0	Н	36.92		5.99	42.91		74.00	54.00	-11.09	Н
7215.0	Н						74.00	54.00		Н
9620.0	Н						74.00	54.00		Н
12025.0	Н						74.00	54.00		Н
14430.0	Н						74.00	54.00		Н
16835.0	Н						74.00	54.00		Н
19240.0	Н						74.00	54.00		Н
21645.0	Н						74.00	54.00		Н
24050.0	Н						74.00	54.00		Н
2400.0	Н	36.84		-1.36	35.48		74.00	54.00	-18.52	F

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- (3) "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) Spectrum Peak mode IF bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- (6) Spectrum AV mode IF B bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 22 of 41

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX Test Date: Dec. 25, 2007

Fundamental Frequency: CH Mid / 2440MHz

Test By: Jason

Temperature: 25

Pol: Vertical

Humidity: 65 %

		Peak	AV		Actual	Actual	Peak Limit	AV Limit		
Freq.	Ant.Pol.	Reading	Reading	Factor	Peak FS	AV FS	at 3m	at 3m	Margin	
(MHz)	H/V	(dBuV)	(dBuV)	(dB)	(dBuV/m)	dBuV/m	(dBuV/m)	[dBuV/m]	(dB)	
2440.0	V	76.01		-1.13	74.88		114.00	94.00	-19.12	F
1598.0	V	45.19		-5.48	39.71		74.00	54.00	-14.29	S
3203.5	V	38.38		1.07	39.45		74.00	54.00	-14.55	S
4880.0	V	38.93		6.17	45.10		74.00	54.00	-8.90	Н
7320.0	V	36.64		12.90	49.54		74.00	54.00	-4.46	Н
9760.0	V						74.00	54.00		Н
12200.0	V						74.00	54.00		Н
14640.0	V						74.00	54.00		Н
17080.0	V						74.00	54.00		Н
19520.0	V						74.00	54.00		Н
21960.0	V						74.00	54.00		Н
24400.0	V						74.00	54.00		Н

- (1) Measuring frequencies from 30MHz to the 10tth of fundamental frequency \circ
- (2) Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB
- (3) "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) Spectrum Peak mode IF bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- (6) Spectrum AV mode IF B bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 23 of 41

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX Test Date: Dec. 25, 2007

Fundamental Frequency: CH Mid / 2440MHz

Test By: Jason

Temperature: 25

Pol: Horizontal

Humidity: 68 %

		Peak	$\mathbf{A}\mathbf{V}$		Actual	Actual	Peak Limit	AV Limit		
Freq.	Ant.Pol	Reading	Reading	Factor	Peak FS	AV FS	at 3m	at 3m	Margin	
(MHz)	H/V	(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m	(dBuV/m)	[dBuV/m]	(dB)	
2440.0	Н	83.38		-1.13	82.25		114.00	94.00	-11.75	F
1630.5	Н	45.31		-5.26	40.05		74.00	54.00	-13.95	S
3255.5	Н	38.31		1.20	39.51		74.00	54.00	-14.49	S
4880.0	Н						74.00	54.00		Η
7320.0	Н	37.12		12.90	50.02		74.00	54.00	-3.98	Н
9760.0	Н						74.00	54.00		H
12200.0	Н						74.00	54.00		Н
14640.0	Н						74.00	54.00		Н
17080.0	Н						74.00	54.00		Н
19520.0	Н						74.00	54.00		Н
21960.0	Н						74.00	54.00		Н
24400.0	Н						74.00	54.00		H

- (1) Measuring frequencies from 30MHz to the 10tth of fundamental frequency \circ
- (2) Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB
- (3) "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) Spectrum Peak mode IF bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- (6) Spectrum AV mode IF B bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 24 of 41

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TXTest Date: Dec. 25, 2007 Fundamental Frequency: CH High / 2480MHz Test By: Jason Temperature: 25 Pol: Vertical Humidity: 65 % 2480.0 V 75.41 -0.92 74.49 114.00 94.00 -19.51 F 1643.5 V 43.64 -5.2238.42 74.00 54.00 -15.58 Η 3301.0 V 38.50 --1.42 39.92 --74.00 54.00 -14.08 Η 4960.0 V ----74.00 54.00 Η 7440.0 V 74.00 54.00 Η ----9920.0 V 74.00 54.00 Η 12400.0 V 74.00 54.00 Η 14880.0 V --74.00 54.00 Η 17360.0 V 74.00 54.00 Η ------19840.0 V --74.00 54.00 Η 22320.0 V 74.00 54.00 Η 24800.0 V 74.00 54.00 Η -20.50 2483.5 V 34.42 -0.92 33.50 74.00 54.00 S

- (1) Measuring frequencies from 30MHz to the 10tth of fundamental frequency \circ
- Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB
- (3) "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) Spectrum Peak mode IF bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- (6) Spectrum AV mode IF B bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 25 of 41

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX Test Date: Dec. 25, 2007

Fundamental Frequency: CH High / 2480MHz

Test By: Jason

Temperature: 25

Pol: Horizontal

Humidity: 68 %

		Peak	AV		Actual	Actual	Peak Limit	AV Limit		
Freq.	Ant.Pol.	Reading	Reading	Factor	Peak FS	AV FS	at 3m	at 3m	Margin	
(MHz)	H/V	(dBuV)	(dBuV)	(dB)	(dBuV/m)	dBuV/m	(dBuV/m)	(dBuV/m)	(dB)	
2480.0	Н	82.35		-0.92	81.43		114.00	94.00	-12.57	F
1643.5	Н	46.72		-5.22	41.50		74.00	54.00	-12.50	S
3301.0	Н	37.69		1.42	39.11		74.00	54.00	-14.89	S
4960.0	Н						74.00	54.00		Η
7440.0	Н						74.00	54.00		Н
9920.0	Н						74.00	54.00		Η
12400.0	Н						74.00	54.00		Н
14880.0	Н						74.00	54.00		Η
17360.0	Н						74.00	54.00		Н
19840.0	Н						74.00	54.00		Η
22320.0	Н						74.00	54.00		Н
24800.0	Н						74.00	54.00		Н
2483.5	Н	36.73		-0.92	35.81		74.00	54.00	-18.19	S

- (1) Measuring frequencies from 30MHz to the 10tth of fundamental frequency \circ
- (2) Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB
- (3) "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) Spectrum Peak mode IF bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- (6) Spectrum AV mode IF B bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 26 of 41

6. 26 dB Band Width Measurement

6.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set ETU normal operating mode.
- 3. Set SPA Center Frequency = fundamental frequency, RBW, VBW = 100KHz, Span = 3MHz.
- 4. Set SPA Max hold. Mark peak, -26dB.

6.2 Test SET-UP (Block Diagram of Configuration)

Same as 4.2 Radiated Emission Measurement.

6.3 Measurement Equipment Used:

Same as 4.2 Radiated Emission Measurement.

6.4 Measurement Results:

Ch Low 26dB Bandwidth = 3.920MHz

Ch Mid 26dB Bandwidth = 3.947MHz

Ch High 26dB Bandwidth = 3.984MHz

Refer to attached data chart.

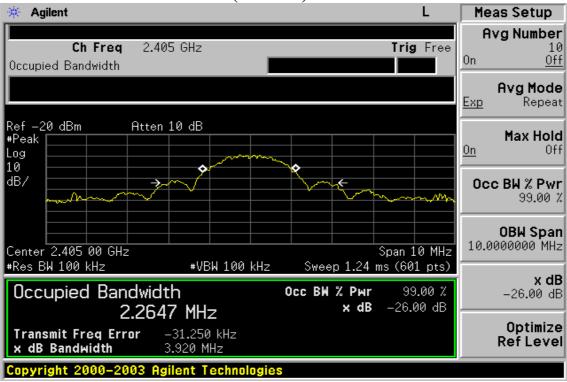


SGS

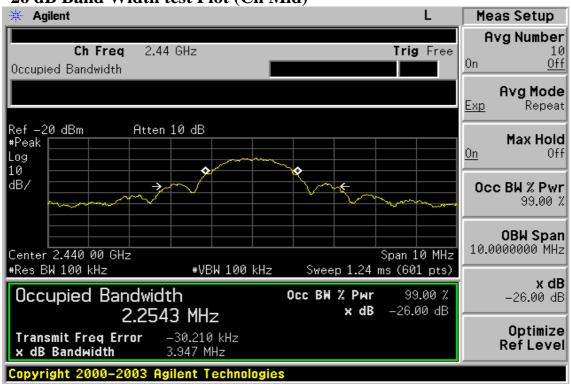
Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 27 of 41

26 dB Band Width test Plot (Ch Low)



26 dB Band Width test Plot (Ch Mid)





Report No.: ER/2007/C0016 Issue Date: Feb. 25, 2008

Page: 28 of 41

26 dB Band Width test Plot (Ch High)

