

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product name:	Wireless Caller ID clock
Model Name:	EX503TR
FCC ID:	QUQSILEX503TR
REPORT NO:	ER/2004/70009
ISSUE DATE:	Jul. 26, 2004
FCC Rule Part:	§15.231(e)
Prepared for	Silcon Innoproducts Ltd. Rm C1, 6/F., Block C, HongKong Industrial Centre 489-491 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong
Prepared by	SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Silcon Innoproducts Ltd.

Applicant: Rm C1, 6/F., Block C, HongKong Industrial Centre 489-491 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong

Product Description: Wireless Caller ID clock

FCC ID Number: QUQSILEX503TR

Brand Name: N/A

Model No.: EX503TR

Model Difference: N/A

File Number: ER/2004/70009

Date of test: Jul. 10, 2004 ~ Jul 25, 2004

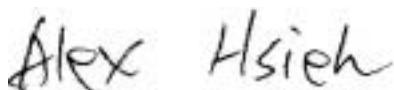
Date of receive: Jul. 10, 2004

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. 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 (2001) 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 15.231(e).

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

Test By:



Date

Jul. 26, 2004

Alex Hsieh

Approved By



Date

Jul. 26, 2004

Vincent Su

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Version

Version No.	Date
01	Aug. 16, 2004

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1. GENERAL INFORMATION

1.1 Product Description

The Silicon Innoproduts Ltd., Model: EX503TR (referred to as the EUT in this report) is a Wireless Caller ID transmitter.

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 433.92 MHz
- B). Modulation: ASK Modulation
- C). Antenna Designation: Non-User Replaceable (Fixed)
- D). Power Supply: 3 Vdc from AA*2 battery.
- E). Transmitting Time: Periodic \leq 3 seconds
Silent Time: 30 seconds

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **QUQSILEX503TR** filing to comply with Section 15.231(e) of the FCC Part 15, Subpart C Rules. The composite system (receiver) 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 (2001). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2001 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Anechoic chamber (3 meters) Registration Number: 573967

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

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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 normal operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions (Not apply in the report)

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4-2001. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated 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 13.1.4.1 of ANSI C63.4-2001.

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2.4 Limitation

(1) Conducted Emission (Not applicable in this report)

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

Frequency range MHz	Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

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(2) Radiated Emission

According to 15.231(e), the field strength of emissions from Intentional Radiators operated under this section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental		Field Strength of Spurious	
	(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)
40.66 - 40.70	60	1000	40	100
70 - 130	54	500	34	50
130 - 174	* 54 – 63.5	* 500 to 1500	* 34 – 43.5	* 50 to 150
174 - 260	63.5	1500	43.5	150
260 - 470	* 63.5 - 74	* 1500 to 5000	* 43.5 - 54	* 150 to 500
above 470	74	5000	74	500

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 ξ 15.205, then the general radiated emission limits in ξ 15.209 apply.

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

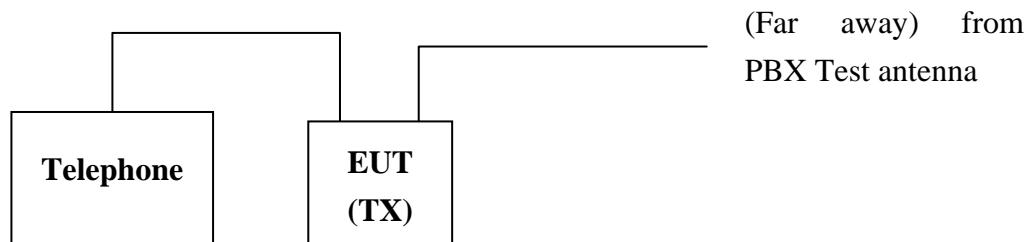


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.	Data Cable	Power Cord
1.	Telephone	Ruei-Tung	RS-802HF	N/A	N/A	N/A	N/A

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3. Summary Of Test Results

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	N/A
§15.231(e)	Radiated Emission	Compliant
§15.231	20dB Bandwidth	Compliant
	Duty Cycle Test (Pulse Modulation)	N/A
§15.231(e)	Transmission time and silent time measurement	Compliant

4. Description of test modes

The EUT (Wireless Caller ID clock) has been tested under engineering test mode condition. and the EUT staying in continuous transmitting mode.

The Frequency 433.92MHz is chosen for testing.

The X, Y and Z-axis of EUT were pre-test; X and Y mode were the worse case and report.

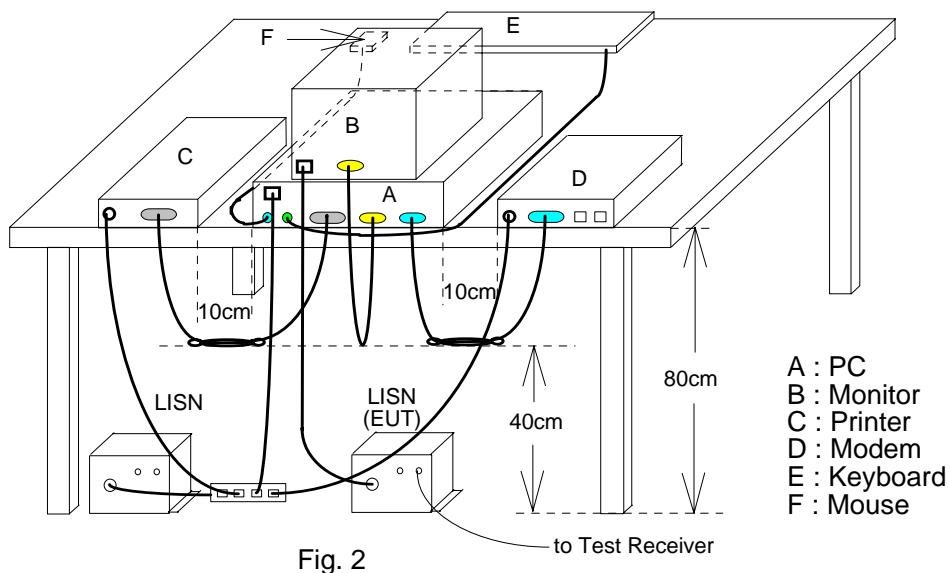
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

5. Conducted Emissions Test (Not apply in the report)

5.1 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.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMC Analyzer	HP	8594EM	3624A00203	12/31/2003	12/30/2004
EMI Test Receiver	R&S	ESCS30	828985/004	01/15/2004	01/14/2005
LISN	Rolf-Heine	NNB-2/16Z	99012	12/30/2003	12/29/2004
LISN	Rolf-Heine	NNB-2/16Z	99013	11/06/2003	11/05/2004

5.4 Measurement Result:

N/A

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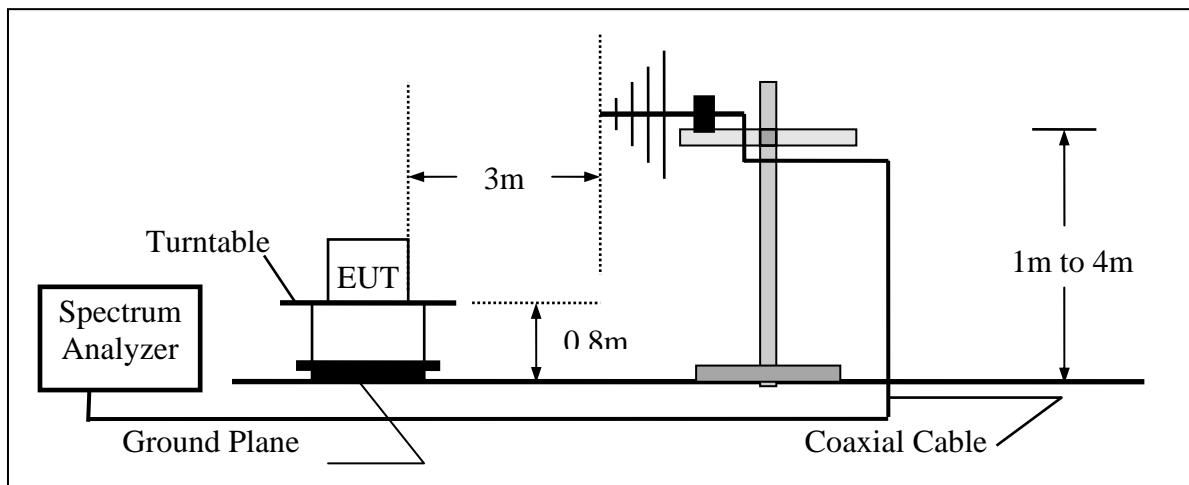
6. Radiated Emission Test

6.1 Measurement Procedure

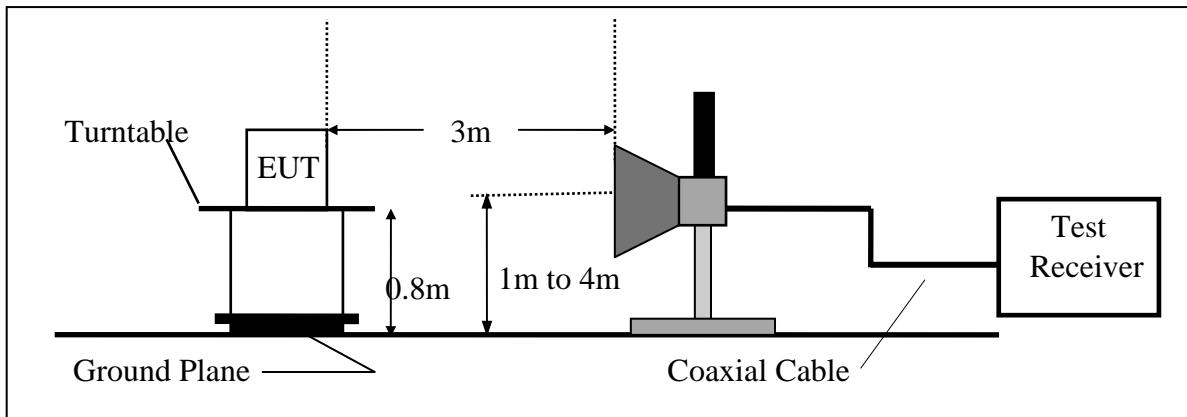
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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

6.2 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



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6.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	05/27/2004	05/26/2005
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2003	08/27/2004
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2004	06/02/2005
Bilog Antenna	SCHWAZBECK	VULB9160		06/03/2004	06/02/2005
Horn Antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2003	08/15/2004
Pre-Amplifier	HP	8447D	2944A09469	07/19/2004	07/18/2005
Pre-Amplifier	HP	8449B	3008A00578	02/26/2004	02/25/2005
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	10/9/2003	10/08/2004
Low Loss Cable	HUBER+SUHNE R	SUCOFLEX 104PEA-3M	3m	10/9/2003	10/08/2004
Site NSA	SGS	966 chamber	N/A	11/17/2003	11/16/2004
Site NSA	SGS	10m Open-Site	N/A	10/02/2003	10/01/2004

6.4 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:

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

Average Value = Peak Value + 20 Log (Ton/Tp) Pulse Modulation

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

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6.5 Measurement Result

Operation Mode: Transmitting Mode
 Fundamental Frequency: 433.92MHz X mode
 Temperature : 25
 Humidity : 65 %
 Judgement : Passed by -4.03 dB at 870 MHz Ant.Pol. Ver EUT Axis X

Freq. (MHz)	F /S	Ant.Pol. (H/V)	Peak	AV	Reading CF(dB)	Peak	AV	Reading CF(dB)	Peak	AV	Margin (dB)
			Reading (dBuV)	Ant./CL (dBuV/m)		Level (dBuV/m)	Leel (dBuV/m)		Limit (dBuV/m)	Limit (dBuV/m)	
433.9	F	V	78.65	69.30	-9.96	68.69	59.34	92.80	72.80	-13.46	AV
870.0	S	V	59.73	51.33	-2.56	57.17	48.77	72.80	52.80	-4.03	AV
1297.0	*S	V	71.35	55.85	-8.00	63.35	47.85	74.00	54.00	-6.15	AV
1735.0	S	V	60.85	45.85	-6.22	54.63	39.63	74.00	54.00	-14.37	AV
2170.0	S	V	55.76	40.76	-4.39	51.37	36.37	74.00	54.00	-17.63	AV
2608.0	S	V	59.12	43.32	-2.74	56.38	40.58	74.00	54.00	-13.42	AV
3043.0	S	V	62.41	47.41	-1.92	60.49	45.49	74.00	54.00	-8.51	AV
3472.0	S	V	57.12	41.92	-1.14	55.98	40.78	74.00	54.00	-13.22	AV
3907.0	*S	V	42.13	27.03	0.39	42.52	27.42	74.00	54.00	-26.58	AV
4340.0	*S	V	--	--	--	--	--	74.00	54.00		

Remark :

- (1) + F/S F : denotes Fundamental Frequency ; S : denotes Spurious Frequency
- (2) EUT Orthogonal Axes : X denotes Laid on Table ; Y denotes Vertical Stand .
- (3) Measuring frequencies from 30 MHz to the 10th harmonic of fundamental frequency of 433.92 MHz.
- (4) Dates 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) * Denotes spurious frequency, which falls within the Restricted Bands specified in provision of $\xi 15.205$, then the general radiated emission limits in $\xi 15.209$ apply.
- (6) Peak Setting: 30MHz – 1000MHz, RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms.
1GHz- 5GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms
- (7) AV Setting: 30MHz – 1000MHz, RBW= 120KHz, VBW=120KHz, Sweep time = 200 ms.
1GHz- 5GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms

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Operation Mode: Transmitting Mode Test Date: Jul. 15, 2004
 Fundamental Frequency: 433.92MHz X mode Test By: Alex
 Temperature: 25 Pol: Hor.
 Humidity: 65 %
 Judgement : Passed by -4.1 dB at 870 MHz Ant.Pol. Hor EUT Axis X

Freq. (MHz)	F /S	Ant.Pol. (H/V)	Peak	AV	Reading CF(dB)	Peak	AV	Peak	AV	Margin (dB)	AV
			Reading (dBuV)	Ant./CL (dBuV)		Level (dBuV/m)	Leel (dBuV/m)	Limit (dBuV/m)			
433.9	F	H	85.04	76.30	-9.96	75.08	66.34	92.80	72.80	-6.46	AV
870.0	S	H	59.56	51.26	-2.56	57.00	48.70	72.80	52.80	-4.10	AV
1297.0	*S	H	71.87	56.67	-8.00	63.87	48.67	74.00	54.00	-5.33	AV
1735.0	S	H	60.98	45.48	-6.22	54.76	39.26	74.00	54.00	-14.74	AV
2170.0	S	H	57.61	42.61	-4.39	53.22	38.22	74.00	54.00	-15.78	AV
2608.0	S	H	59.52	43.82	-2.74	56.78	41.08	74.00	54.00	-12.92	AV
3043.0	S	H	57.27	41.77	-1.92	55.35	39.85	74.00	54.00	-14.15	AV
3472.0	S	H	54.33	39.33	-1.14	53.19	38.19	74.00	54.00	-15.81	AV
3907.0	*S	H	41.90	26.30	0.39	42.29	26.69	74.00	54.00	-27.31	AV
4340.0	*S	H	--	--	--	--	--	74.00	54.00		

Remark :

- (1) + F/S F : denotes Fundamental Frequency ; S : denotes Spurious Frequency
- (2) EUT Orthogonal Axes : X denotes Laid on Table ; Y denotes Vertical Stand .
- (3) Measuring frequencies from 30 MHz to the 10th harmonic of fundamental frequency of 433.92 MHz.
- (4) Dates 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) * Denotes spurious frequency, which falls within the Restricted Bands specified in provision of $\xi 15.205$, then the general radiated emission limits in $\xi 15.209$ apply.
- (6) Peak Setting: 30MHz – 1000MHz, RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms.
1GHz- 5GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms
- (7) AV Setting: 30MHz – 1000MHz, RBW= 120KHz, VBW=120KHz, Sweep time = 200 ms.
1GHz- 5GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms

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Operation Mode: Transmitting Mode
Fundamental Frequency: 433.92MHz Y mode
Temperature: 25
Humidity: 65 %

Test Date: Jul. 15, 2004
Test By: Alex
Pol: Vertical

Judgement : Passed by -2.04 dB at 1297 MHz Ant.Pol. Ver EUT Axis Y

Freq. (MHz)	F /S	Ant.Pol. (H/V)	Peak	AV	Peak	AV	Peak	AV	Margin (dB)	AV
			Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Level (dBuV/m)	Leel (dBuV/m)	Limit (dBuV/m)		
433.9	F	V	88.66	80.20	-9.96	78.70	70.24	92.80	72.80	-2.56
870.0	S	V	59.87	51.57	-2.56	57.31	49.01	72.80	52.80	-3.79
1297.0	*S	V	75.46	59.96	-8.00	67.46	51.96	74.00	54.00	-2.04
1735.0	S	V	57.42	41.62	-6.22	51.20	35.40	74.00	54.00	-18.60
2170.0	S	V	61.03	45.93	-4.39	56.64	41.54	74.00	54.00	-12.46
2608.0	S	V	60.07	45.07	-2.74	57.33	42.33	74.00	54.00	-11.67
3043.0	S	V	64.45	49.45	-1.92	62.53	47.53	74.00	54.00	-6.47
3472.0	S	V	57.95	42.55	-1.14	56.81	41.41	74.00	54.00	-12.59
3907.0	*S	V	39.88	24.88	0.39	40.27	25.27	74.00	54.00	-28.73
4340.0	*S	V	--	--	--	--	--	74.00	54.00	

Remark :

- (1) + F/S F : denotes Fundamental Frequency ; S : denotes Spurious Frequency
- (2) EUT Orthogonal Axes : X denotes Laid on Table ; Y denotes Vertical Stand .
- (3) Measuring frequencies from 30 MHz to the 10th harmonic of fundamental frequency of 433.92 MHz.
- (4) Dates 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) * Denotes spurious frequency, which falls within the Restricted Bands specified in provision of $\xi 15.205$, then the general radiated emission limits in $\xi 15.209$ apply.
- (6) Peak Setting: 30MHz – 1000MHz, RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms.
1GHz- 5GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms
- (7) AV Setting: 30MHz – 1000MHz, RBW= 120KHz, VBW=120KHz, Sweep time = 200 ms.
1GHz- 5GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms

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Operation Mode: Transmitting Mode
 Fundamental Frequency: 433.92MHz Y mode
 Temperature : 25
 Humidity : 65 %
 Judgement : Passed by

Test Date : Jul. 15, 2004

Test By: Alex

Pol: Hor.

EUT Axis Y

Freq. (MHz)	F /S	Ant.Pol. (H/V)	Peak	AV	Peak	AV	Peak	AV	Margin (dB)	AV
			Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Level (dBuV/m)	Leel (dBuV/m)	Limit (dBuV/m)		
433.9	F	H	90.49	81.30	-9.96	80.53	71.34	92.80	72.80	-1.46
870.0	S	H	63.42	53.20	-2.56	60.86	50.64	72.80	52.80	-2.16
1297.0	*S	H	70.33	55.03	-8.00	62.33	47.03	74.00	54.00	-6.97
1735.0	S	H	66.47	51.47	-6.22	60.25	45.25	74.00	54.00	-8.75
2170.0	S	H	56.63	40.93	-4.39	52.24	36.54	74.00	54.00	-17.46
2608.0	S	H	62.69	47.69	-2.74	59.95	44.95	74.00	54.00	-9.05
3043.0	S	H	65.70	50.40	-1.92	63.78	48.48	74.00	54.00	-5.52
3472.0	S	H	57.08	41.78	-1.14	55.94	40.64	74.00	54.00	-13.36
3907.0	*S	H	42.48	27.48	0.39	42.87	27.87	74.00	54.00	-26.13
4340.0	*S	H	--	--	--	--	--	74.00	54.00	

Remark :

- (1) + F/S F : denotes Fundamental Frequency ; S : denotes Spurious Frequency
- (2) EUT Orthogonal Axes : X denotes Laid on Table ; Y denotes Vertical Stand .
- (3) Measuring frequencies from 30 MHz to the 10th harmonic of fundamental frequency of 433.92 MHz.
- (4) Dates 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) * Denotes spurious frequency, which falls within the Restricted Bands specified in provision of ξ15.205, then the general radiated emission limits in ξ 15.209 apply.
- (6) Peak Setting: 30MHz – 1000MHz, RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms.
1GHz- 5GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms
- (7) AV Setting: 30MHz – 1000MHz, RBW= 120KHz, VBW=120KHz, Sweep time = 200 ms.
1GHz- 5GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms

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7. Occupied Bandwidth

7.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10KHz, Span =100KHz.
4. Set SPA Max hold. Mark peak, -20dB.

7.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

7.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

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7.4 Measurement Results

Refer to attached data chart.

The center frequency f_c is **433.92Mhz**, according to the Rules, section 15.231(C), the Bandwidth of Center Frequency at-20dB should be calculated as following:

$$433.92 \times 0.0025 = 1.0848(\text{MHz})$$

So, the Up/Lower frequencies limit should be specified as:

$$f_{(U)} = f_c + \Delta f/2 = 433.92 + 0.5424 = 434.46(\text{MHz})$$

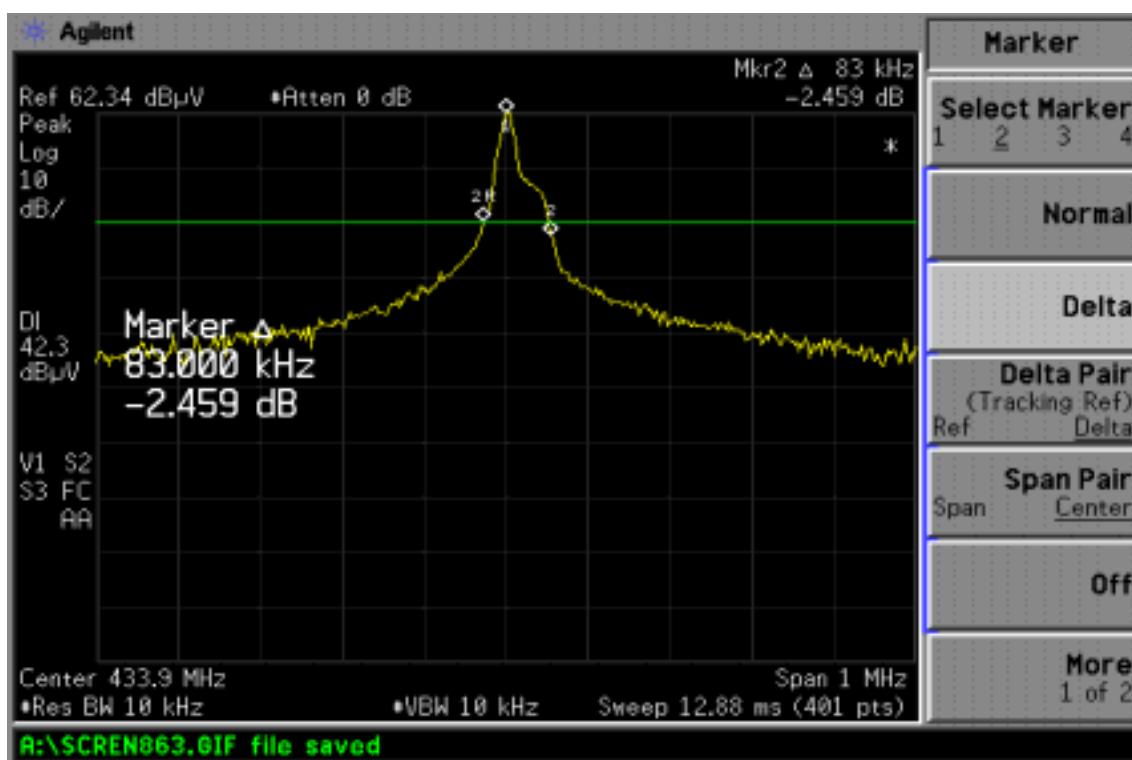
$$f_{(L)} = f_c - \Delta f/2 = 433.92 - 0.5424 = 433.377 (\text{MHz})$$

Measurement Result:

-20dB bandwidth = 83KHz within allowed frequency range.

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26dB Band Width Test Data



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8. Duty Cycle Measurement (Not apply in the report)

The modulation technologies for this device is ASK modulation, not applicable for this test.

8.1 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 =0 Hz. Adjacent sweep.
4. Set SPA View. Mark delta.

8.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

8.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

8.4 Measurement Results:

N/A

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9. Transmission Time and Silent period Measurement

9.1 Requirement: The duration of each transmission time shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 second.

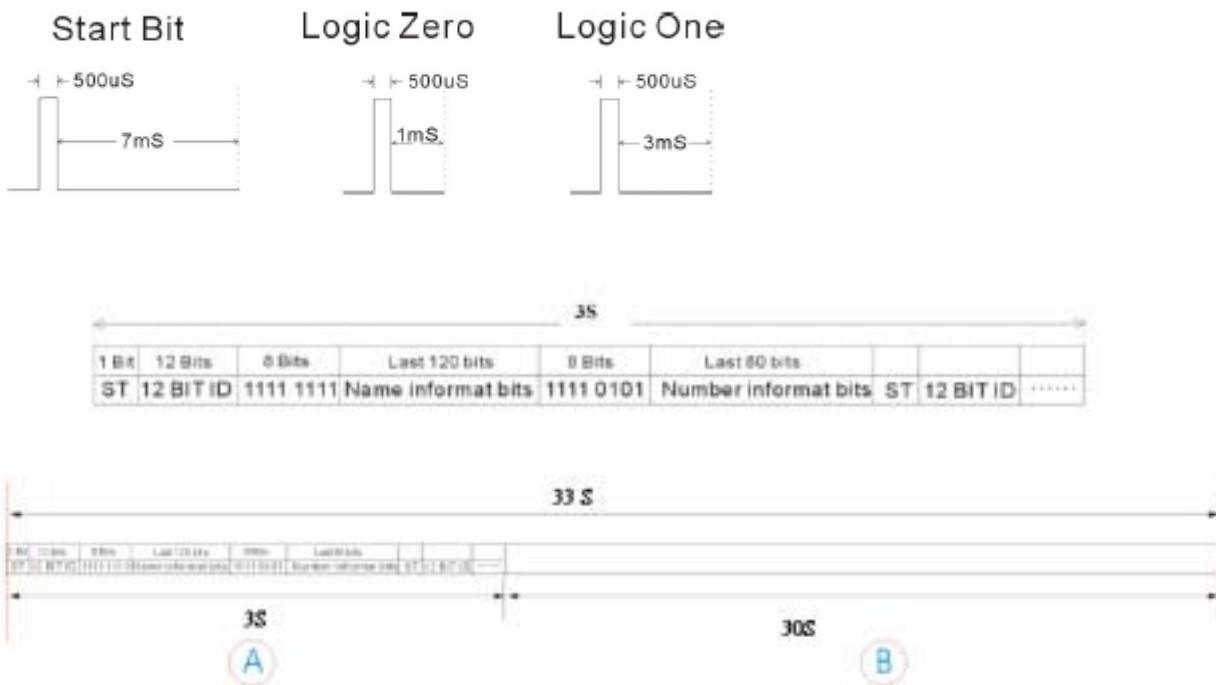
9.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

9.3 Result:

Transmission Time:

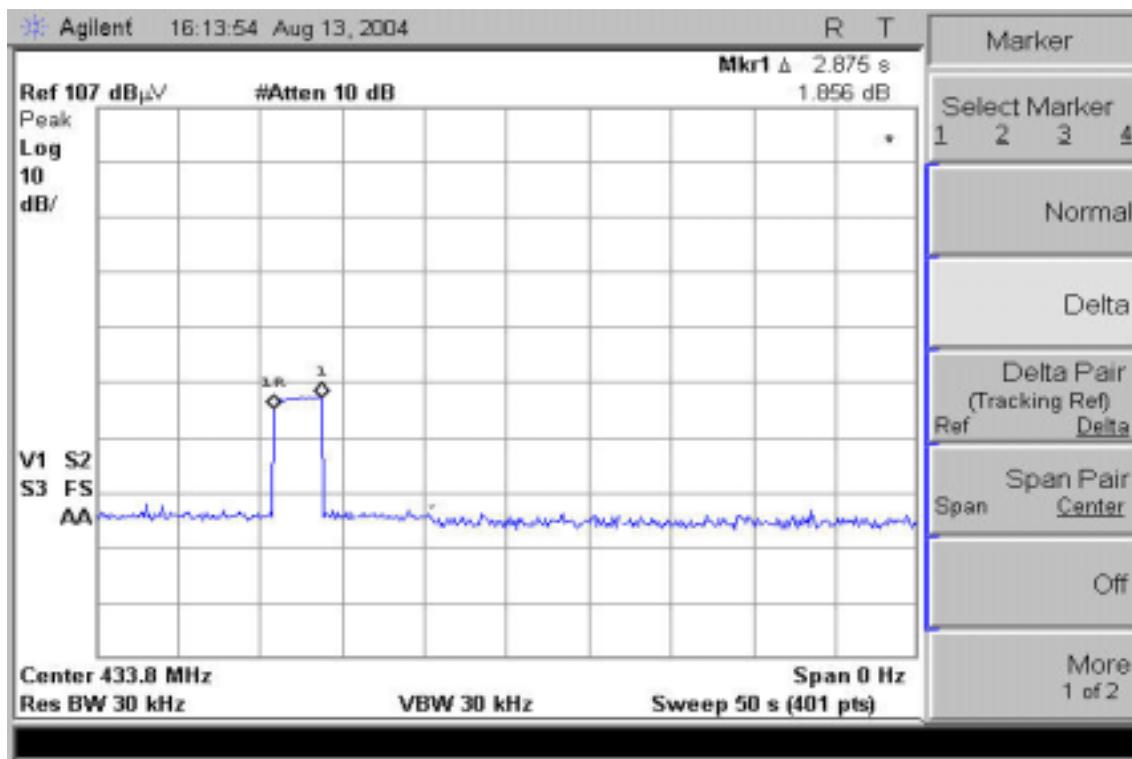
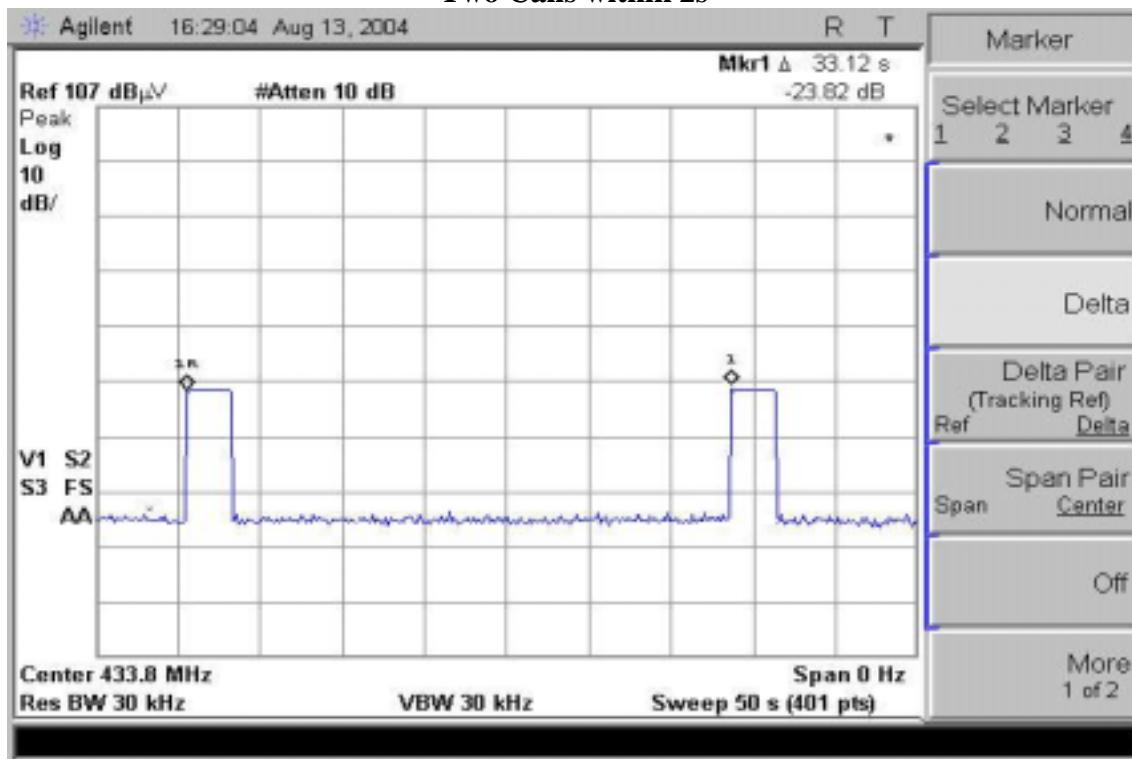
According to operating description of EUT. When worst case occur, the Transmission Time will be 0.5ms (Logic Zero Ton)/1.5 ms (period) X 3(s) = 1 s max.



Silent Period:

Set spectrum zero span and sweep time to 50 s. One transmission was found.

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One Call within 50S**Two Calls within 2s**

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