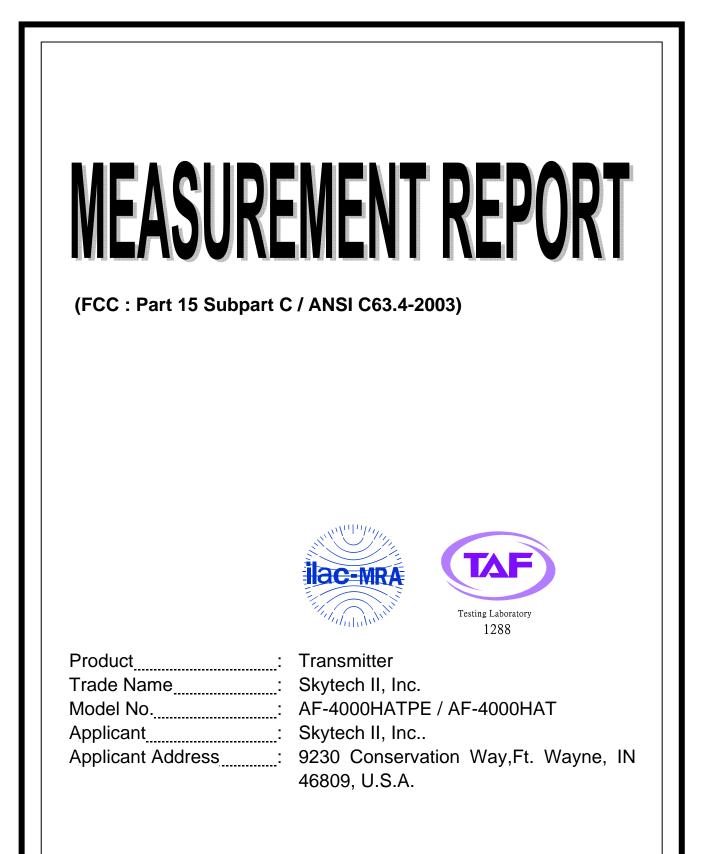


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Report Number	MLT0805P15003
Applicant	Skytech II, Inc.
Product	Transmitter
Sample Received Date	2008/05/20

Report Prepared By	Jesse Tien
Signature	Jesse Fier
Date Prepared	2008/05/21 ~ 2008/06/10

Report Authorized By	Roger Chen
Signature	Typer Ch
Date Authorized	2008/06/24

Test By

Max Light Technology Co., Ltd. Room 5, 8F, No.125, Section 3 Roosevelt Road, Taipei, Taiwan., R.O.C. Office : Tel: 886-2-2363-2447 Fax: 886-2-2363-2597 Lab. : Tel: 886-2-2663-3486 Fax: 886-2-2663-3582

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CERTIFICATION

We here by verify that :

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. All test were conducted by MLT(Max Light Technology Co.,Ltd) Room 5, 8F, No.125, Section 3 Roosevelt Road, Taipei, Taiwan, R.O.C Also, we attest to the accuracy of each.

We further submit that the energy emitted by the sample EUT tested as described in the report is in compliance with radiated emission limit of FCC Rules Part 15 Subpart C Section 15.231.

Applicant Name	Skytech II, Inc.	
Applicant Address	9230 Conservation Way,Ft. Wayne,IN 46809,U.S.A.	
Manufacturer Name	FEGO Precision Industrial Co., Ltd.	
	947 LIN SEN RD., WU-FENG SHIANG TAICHUNG HSIEN	
Manufacturer Address	R.O.C.	

Equipment	Transmitter
Model No	AF-4000HATPE / AF-4000HAT
FCC ID	K9LAF4HAT

Report Prepared By	Jesse Tien
Signature	Jesse Tien

Report Authorized By	Roger Chen
Signature	Tyou Ch



1. GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of Skytech II, Inc. In support of an Intentional Periodic Radiator certification in accordance with Part 2 Subpart J and Part 15 Subpart A And C of the Commission's and Regulations.

1.2 Customer Details

Applicant Name	Skytech II, Inc.	
Applicant Address	9230 Conservation Way,Ft. Wayne,IN 46809,U.S.A.	
Manufacturer Name	FEGO Precision Industrial Co., Ltd.	
	947 LIN SEN RD., WU-FENG SHIANG TAICHUNG HSIEN	
Manufacturer Address	R.O.C.	

1.3 Technical data of EUT

Equipment	Transmitter
Model No	AF-4000HATPE / AF-4000HAT
FCC ID	K9LAF4HAT
Power Type	Powered by 6V Battery (1.5V AA Size X4).

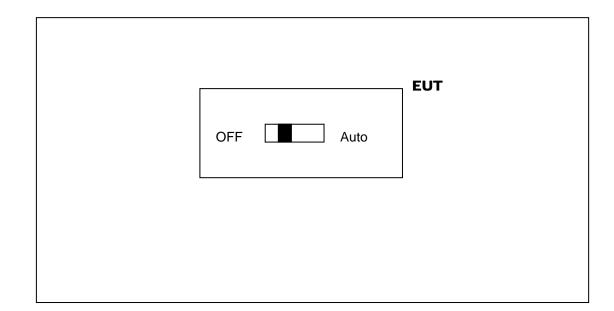
The EUT (AF-4000HATPE / AF-4000HAT) is remote transmitter. The operation frequency is 303.8Mhz. Press the button on remote transmitter, can set the Auto / OFF function.

1.4 Description of Support Equipment

The EUT itself forms a system. No support equipment is required for its normal operation.

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1.5 Configuration of System Under Test

1.6 Test Procedure

All measurements contained in this report were performed according to the techniques described in Measurement procedure ANSI C63.4: 2003 "Measurement of Intentional Radiators."

1.7 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests was chosen as that which produced the highest emission levels. However, only those conditions which the EUT was considered likely to encounter in normal use were investigated.



2. Conducted Emissions Requirements

The EUT operates solely by the battery. According to the rule of Section 15.207(c), the EUT exempt to the power line conducted test.





3. Radiated Emissions Requirements

3.1 General Configuration:

Prior to open-field testing, the EUT was placed in a shielded enclosure and scanned at a close distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration which produced the highest emissions was noted so it could be reproduced later during the open-field tests. This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT.

3.2 General Configuration:

Final radiation measurements were made on a three-meter, open-field test site. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 30 MHz to5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on tree orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

The field strength below 1 GHz was measured by EMCO Biconilog Antenna (mode 3142C) at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna (model BBHA9120D&9170) was used in frequencies 1 – 40 GHz at a distance of 3 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).



For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) Amplitude (dBuV/m)= FI(dBuV)+AF(dBuV)+CL(dBuV)-Gain(dB)

FI= Reading of the field intensity.AF= Antenna factor.CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m)= Amplitude (dBuV)-Duty(dB)-Dis(dB)

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:



(1) For fundamental frequency :

(1.1) For the manual transmission, according to 15.231(b)

FUNDAMENTAL FREQUENCY (MHz), excluding restricted band frequencies of Table 2	FIELD STRENGTH OF FUNDAMENTAL microvolts/m at 3 metres, (watts, EIRP)(1)	FIELD STRENGTH OF UNWANTED EMISSIONS(1) microvolt/metre at 3 metres
40.66-40.70	2250	225
70-130	1,250	125
130-174	1,250 to 3,750*	125 to 375*
174-260 (note 1)	3,750	375
260-470 (note 1)	3,750 to 12,500*	375 to 1,250*
Above 470	12,500	1250

Note : Use quasi-peak or averaging meter.

*Linear interpolation with frequency F in MHz:

For 130-174 MHz: FS (microvolts/m) = (56.82 x F) - 6136

For 260-470 MHz: FS (microvolts/m) = (41.67 x F) - 7083

(1.2) For the automatic transmission, according to 15.231(e)

FUNDAMENTAL FREQUENCY (MHz), excluding restricted band frequencies of Table 2	FIELD STRENGTH OF FUNDAMENTAL microvolts/m at 3 metres, (watts, EIRP)(1)	FIELD STRENGTH OF UNWANTED EMISSIONS(1) microvolt/metre at 3 metres
40.66-40.70	1000	100
70-130	500	50
130-174	500 to 1,500*	50 to 150*
174-260 (note 1)	1,500	150
260-470 (note 1)	1,500 to 5,000*	150 to 500*
Above 470	5,000	500

Note : Use quasi-peak or averaging meter.

* Linear interpolation with frequency F in MHz:

For 130-174 MHz: FS (microvolts/m) = (22.73 x F) – 2454.55

For 260-470 MHz: FS (microvolts/m) = (16.67 x F) - 2833.33

(2) For spurious frequency :

Spurious emission limits = fundamental emission limit /10

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3.3 Test Equipment List:

ltem	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	HP	Spectrum Analyzer	73412A00110	8591EM	2008/03/27	2009/03/27
2.	HP	Pre Amplifier	2944A08954	8447D	2008/03/27	2009/03/27
3.	HP	Pre Amplifier	3113A05475	8447F	2008/03/27	2009/03/27
4.	EMCO	Biconilog Antenna	00044568	3142C	2007/07/27	2008/07/27
5.	Agilent	Spectrum Analyzer	US44300422	E4446A	2008/04/22	2009/04/22
6.	HP	Pre Amplifier	3008A01463	8449B	2008/03/21	2009/03/21
7.	SCHWARZBECK	Horn Antenna	304	BBHA 9120 D	2007/09/04	2008/09/04
8.	EMCO	Biconilog Antenna	1334	3142B	2007/07/27	2008/07/26
9.	HP	Pre Amplifier	1937A00786	8447F	2008/04/11	2009/04/11

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3.4 Measurement Data Of Radiated Emissions:

3.4.1 Open Field Radiated Emissions (Horizontal/X-axis)

The values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following

Test Mode : Transmitter

	Radiated Emissions (Fundamental Frequency)										
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
303.80	1.7	280	7.82	54.84	66.97	-12.13					
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
303.80	1.7	280	7.82	62.66	86.97	-24.31					

	Radiated Emissions (Unwanted Frequency)										
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Quasi-peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
606.60	1.5	200	7.82	41.72	54.00	-12.28					
909.70	1.1	300	7.82	38.69	54.00	-15.31					

	Radiated Emissions (Unwanted Frequency)										
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
1206.00	1	90	7.82	37.25	74.00	-36.75					
1510.00	1	170	7.82	32.66	74.00	-41.34					

Notes: 1.Margin= Amplitude - Limits

2. Distance of Measurement : 3 Meter

3.Height of table for EUT placed: 0.8 Meter.

4.ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6. EUT Orthogonal Axes : X denotes Laid on Table ; Z denotes Side Stand ;



3.4.2 Open Field Radiated Emissions (Vertical/X-axis)

The values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following

Test Mode : Transmitter

	Radiated Emissions (Fundamental Frequency)										
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
303.80	1.7	280	7.82	64.02	66.97	-2.95					
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
303.80	1.7	280	7.82	71.84	86.97	-15.13					

	Radiated Emissions (Unwanted Frequency)										
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Quasi-peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
606.60	1.5	200	7.82	31.15	54.00	-22.85					
909.70	1.1	300	7.82	27.44	54.00	-26.56					

	Radiated Emissions (Unwanted Frequency)									
Frequency (MHz)		Table (Degree)	Duty (dB)	Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)				
1206.00	1	90	7.82	33.49	74.00	-40.51				
1510.00	1	170	7.82	30.74	74.00	-43.26				

Notes : 1.Margin= Amplitude - Limits

2. Distance of Measurement : 3 Meter

3.Height of table for EUT placed: 0.8 Meter.

4.ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6. EUT Orthogonal Axes : X denotes Laid on Table ; Z denotes Side Stand ;



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3.4.3 Open Field Radiated Emissions (Horizontal/Y-axis)

The values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following

Test Mode : Transmitter

	Radiated Emissions (Fundamental Frequency)										
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
303.80	1.7	280	7.82	61.80	66.97	-5.17					
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
303.80	1.7	280	7.82	69.62	86.97	-17.35					

	Radiated Emissions (Unwanted Frequency)										
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Quasi-peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
606.60	1.5	200	7.82	37.24	54.00	-16.76					
909.70	1.1	300	7.82	34.50	54.00	-19.50					

	Radiated Emissions (Unwanted Frequency)									
Frequency (MHz)		Table (Degree)	Duty (dB)	Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)				
1206.00	1	90	7.82	35.86	74.00	-38.14				
1510.00	1	170	7.82	33.94	74.00	-40.06				

Notes : 1.Margin= Amplitude - Limits

2. Distance of Measurement : 3 Meter

3.Height of table for EUT placed: 0.8 Meter.

4.ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6. EUT Orthogonal Axes : X denotes Laid on Table ; Z denotes Side Stand ;



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3.4.4 Open Field Radiated Emissions (Vertical/Y-axis)

The values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following

Test Mode : Transmitter

	Radiated Emissions (Fundamental Frequency)										
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
303.80	1.7	280	7.82	59.05	66.97	-7.92					
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
303.80	1.7	280	7.82	66.87	86.97	-20.1					

	Radiated Emissions (Unwanted Frequency)										
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Quasi-peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
606.60	1.5	200	7.82	36.13	54.00	-17.87					
909.70	1.1	300	7.82	34.92	54.00	-19.08					

	Radiated Emissions (Unwanted Frequency)								
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)			
1206.00	1	90	7.82	47.78	74.00	-26.22			
1510.00	1	170	7.82	38.17	74.00	-35.83			

Notes : 1.Margin= Amplitude - Limits

2. Distance of Measurement : 3 Meter

3.Height of table for EUT placed: 0.8 Meter.

4.ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6. EUT Orthogonal Axes : X denotes Laid on Table ; Z denotes Side Stand ;



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3.4.5 Open Field Radiated Emissions (Horizontal/Z-axis)

The values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following

Test Mode : Transmitter

	Radiated Emissions (Fundamental Frequency)										
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
303.80	1.7	280	7.82	65.18	66.97	-1.79					
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
303.80	1.7	280	7.82	73.00	86.97	-13.97					

	Radiated Emissions (Unwanted Frequency)								
Frequency	Ant.	Table	Duty	Quasi-peak	Limit (dBuV/m)	Margin			
(MHz)	(m)	(Degree)	(dB)	(dBuV/m)		(dB)			
606.60	1.5	200	7.82	35.42	54.00	-18.58			
909.70	1.1	300	7.82	32.20	54.00	-21.80			

	Radiated Emissions (Unwanted Frequency)								
Frequency (MHz)		Table (Degree)	Duty (dB)	Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)			
1206.00	1	90	7.82	37.25	74.00	-36.75			
1510.00	1	170	7.82	32.66	74.00	-41.34			

Notes : 1.Margin= Amplitude - Limits

2. Distance of Measurement : 3 Meter

3.Height of table for EUT placed: 0.8 Meter.

4.ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6. EUT Orthogonal Axes : X denotes Laid on Table ; Z denotes Side Stand ;



3.4.6 Open Field Radiated Emissions (Vertical/Z-axis)

The values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following

Test Mode : Transmitter

	Radiated Emissions (Fundamental Frequency)										
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
303.80	1.7	280	7.82	54.43	66.97	-12.54					
Frequency (MHz)	Ant. (m)	Table (Degree)	Duty (dB)	Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)					
303.80	1.7	280	7.82	62.25	86.97	-24.72					

	Radiated Emissions (Unwanted Frequency)								
Frequency (MHz)	I imit (dBuV/m)		Margin (dB)						
606.60	1.5	200	7.82	38.50	54.00	-15.50			
909.70	1.1	300	7.82	37.56	54.00	-16.44			

	Radiated Emissions (Unwanted Frequency)								
FrequencyAnt.TableDutyPeakLimit(MHz)(m)(Degree)(dB)(dBuV/m)Limit				Limit (dBuV/m)	Margin (dB)				
1206.00	1	90	7.82	31.77	74.00	-42.23			
1510.00	1	170	7.82	27.31	74.00	-46.69			

Notes : 1.Margin= Amplitude - Limits

2. Distance of Measurement : 3 Meter

3. Height of table for EUT placed: 0.8 Meter.

4.ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6. EUT Orthogonal Axes : X denotes Laid on Table ; Z denotes Side Stand ;



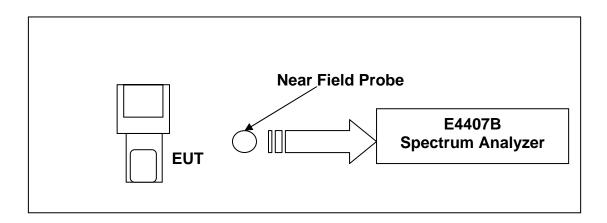
4. Transmitter Bandwidth Measurement

4.1 Test Condition & Setup :

The transmitter bandwidth measurements were performed in a shielded enclosure. The EUT was placed on a wooded table which is 0.8 meters height and a near field probe was used at a distance about 20 cm for receiving. While testing, EUT was set to transmit continuously.

The resolution bandwidth of the spectrum analyzer was set to 10KHz. The detector function was set to peak and hold mode to clearly observe the components. The maximum permitted bandwidth at –20dB with respect to the reference level specified by the rule was 0.25 % of the center frequency of the EUT.

4.2 Test Instruments Configuration:



4.3 Test Equipment List:

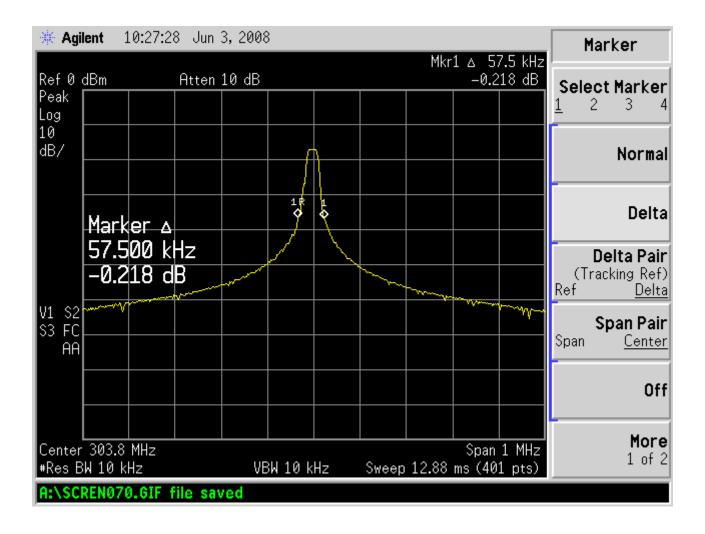
Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	Agilent	Spectrum Analyzer	US44300422	E4446A	2008/04/22	2009/04/22
2.	Agilent	Spectrum Analyzer	US39240419	E4407B	2008/01/22	2009/01/22
3.	HP	Pre Amplifier	1937A00786	8447F	2008/04/11	2009/04/11
4.	EMCO	Biconilog Antenna	1334	3142B	2007/07/27	2008/07/26
5.	EM	Probe	107328	EM-6992	N/A	N/A



4.4 Test Result:

Permitted Maximum Bandwidth	759.50	KHz
Bandwidth Measurement	57.50	KHz

4.5 Test Graphs:







5. Transmitter Duty Cycle Measurement

5.1 Test Condition & Setup :

The transmitter bandwidth measurements were performed in a shielded enclosure. The EUT was placed on a wooded table which is 0.8 meters height and a near field probe was used at a distance about 20 cm for receiving. While testing, EUT was set to transmit continuously. Various key configurations were also investigated to find the maximum duty cycle.

The spectrum analyzer resolution bandwidth and video bandwidth were all set to 1 MHZ to encompass all Significant spectral components during the test. The analyzer was operated in linear scale and zero span mode after tuning to the transmitter carrier frequency. A digital oscilloscope was connected to the aux video output of the spectrum analyzer for measuring pulse width. The pulse width was determined by the difference between the half voltage points on a pulse.

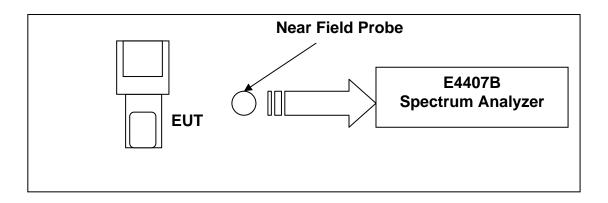
The duty cycle was determined by the following equation :

TO calculate the actual field intensity, the duty cycle correction factor in decibel is needed for later use and can be obtained from following conversion :

Duty Cycle(%)= (Total On Interval in a Complete Pulse Train) X100% (Length of a Complete Pulse Train)

Duty Cycle Correction Factor (dB)= 20 X Log10 (Duty Cycle(%))

5.2 Test Instruments Configuration:





5.3 Test Equipment List:

ltem	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	Agilent	Spectrum Analyzer	US44300422	E4446A	2008/04/22	2009/04/22
2.	Agilent	Spectrum Analyzer	US39240419	E4407B	2008/01/22	2009/01/22
3.	HP	Pre Amplifier	1937A00786	8447F	2008/04/11	2009/04/11
4.	EMCO	Biconilog Antenna	1334	3142B	2007/07/27	2008/07/26
5.	EM	Probe	107328	EM-6992	N/A	N/A

5.4 Test Result:

Pulse Train	Number of Pulse	T(ms)	Total Time (ms)	
Long Pulse	6	1.125	6.75 r	nsec
Short Pulse	27	0.5625	15.1875 r	nsec

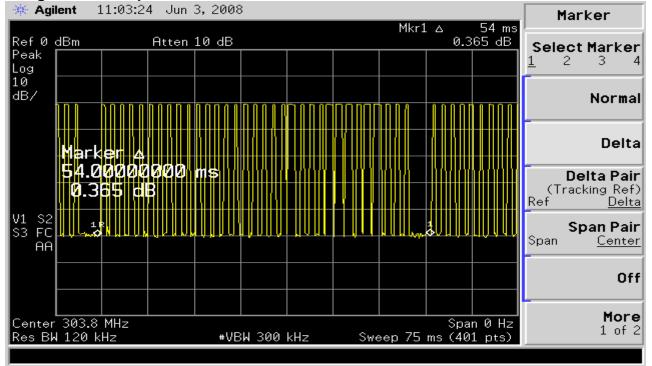
Total ON interval in a complete pulse train	21.9375	msec
Length of a complete pulse train	54.00	msec
Duty Cycle (%)	40.62	%
Duty Cycle Correction Factor (dB)	7.82	dB

5.5 Test Graphs: See next page.

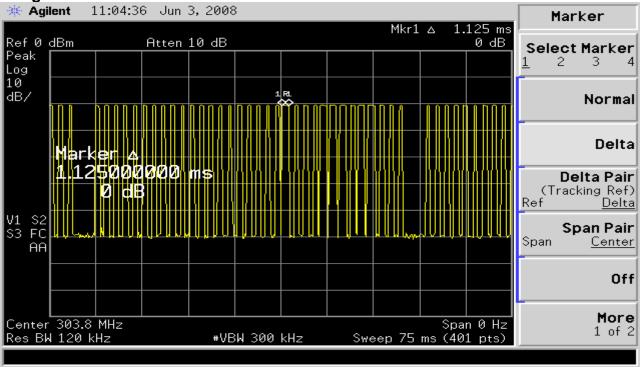
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Length of A Complete Pulse Train



Long Pulse



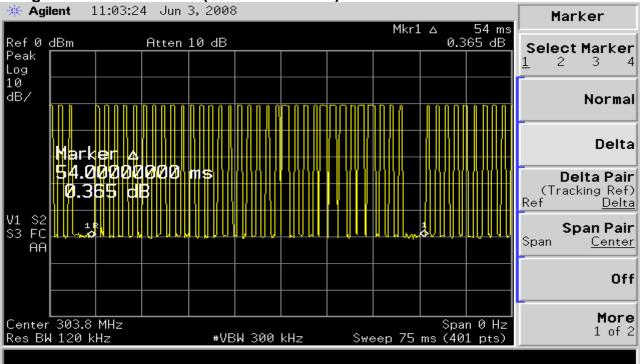
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🔆 Agilent 11:07:45 Jun 3, 2008 Marker Mkr1 🛆 562.5 µs -0.081 dB Ref Ø dBm Atten 10 dB Select Marker Peak 1 2 3 4 Log 10 dB/ 1<u>R</u> Normal Delta Marker <u>4</u> 562.5000000 -0.081 dB ark Delta Pair (Tracking Ref) Ref Delta V1 S2 S3 FC AA Span Pair Span <u>Center</u> Off More Center 303.8 MHz Res BW 120 kHz Span 0 Hz 1 of 2 #VBW 300 kHz Sweep 75 ms (401 pts)

Short Pulse

Long Pulse & Short Pulse (Number of Pulse)



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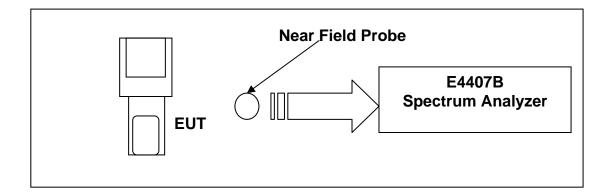
6. Verification of De-activation after 5 seconds

6.1 Test Condition & Setup :

Verification of the transmitter de-activation after 5 seconds was performed in a shielded enclosure. The EUT was placed on a wooded table which is 0.8 meters height and a near field probe was used at a distance about 20 cm for receiving.

The spectrum analyzer resolution bandwidth and video bandwidth were all set to 100KHZ to encompass all Significant spectral components during the test. The analyzer was operated in linear scale and zero span mode after tuning to the transmitter carrier frequency.

6.2 Test Instruments Configuration:



6.3 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type	Calibrated	Next Cali.
nem		instruments	Senai No.	No.	Date	Date
1.	Agilent	Spectrum Analyzer	US44300422	E4446A	2008/04/22	2009/04/22
2.	Agilent	Spectrum Analyzer	US39240419	US39240419 E4407B		2009/01/22
3.	HP	Pre Amplifier	1937A00786	8447F	2008/04/11	2009/04/11
4.	EMCO	Biconilog Antenna	1334	3142B	2007/07/27	2008/07/26
5.	EM	Probe	107328	EM-6992	N/A	N/A



6.4 Test Result:

Compliant Conditions (Section 15.231)		EUT Status				
1. The EUT was manually operated		Yes	x	No		
Requirement:						
The EUT employs a switch that would automatically deactivation	te the	e transm	itter r	no more		
than 5 seconds of being released.						
2. The EUT was automatically activated	x	Yes		No		
Requirement:						
The EUT operated under the provisions of this paragraph sha	ll be j	orovideo	d with	a means		
for automatically limiting operation so that the duration of each transmission shall not be						
greater than one second and the silent period between transmissions shall be at least 30						
increasing the dimension in the second s						

times the duration of the transmission but in no case less than 10 seconds.



Duration of transmission

Agilent 18:41:26 Jun 10, 2008									Marker		
Ref 0	dBm		#Atten	10 dB				Mkr1		37.5 ms 541 dB	
Peak Log											Select Marker <u>1</u> 2 3 4
10 dB/											Normal
					R 1	`					Delta
											Delta Pair (Tracking Ref) Ref <u>Delta</u>
V1 S2 S3 FC AA		~~~~~	, and the second	ana share		a Aurol Decorate in	an a		a a a a a a a a a a a a a a a a a a a		Span Pair Span <u>Center</u>
											Off
	- 303.8 4 100 k			VB	W 100	kHz		Sweep 5		an 0 Hz 01 pts)	More 1 of 2

Duty cycle of transmission

🔆 Agi	-	18:39:4	3 Jun	10,200	18					Marker
Ref Ø	dBm		#Atten	10 dB				Mkr	378.4 s 73 dB	Select Marker
Peak Log	1 R								*	<u>1</u> 2 3 4
10 dB/	Ľ									Normal
										Delta
										Delta Pair (Tracking Ref) Ref <u>Delta</u>
V1 S2 S3 FC AA	سيسالي	····*····			~~~~	·	~~~~,		 	Span Pair Span <u>Center</u>
										Off
Center Res Bk	303.8 100 k			VBI	W 100 k	<hz< td=""><td>Swe</td><td>ep 960</td><td>n 0 Hz 1 pts)</td><td>More 1 of 2</td></hz<>	Swe	ep 960	n 0 Hz 1 pts)	More 1 of 2

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Appendix I- EUT Test SETUP

MEASUREMENT OF RADIATED EMISSION X-positio **EUT Stand on three** n **Orthogonal planes respectively Z-positio** n Antenna Tower Y-positio 4.0M n 3.0M Receiver Antenna EUT 0.8M **Ground Plane** 000

RF Test Receiver Page: 27/28



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Appendix II- Brand /Trade Name & Model No. Multiple Listee

Brand /Trade Name	Model Name				
N/A	N/A				