Reference No.:

Report No.: SZ091118B03-RP

FCC TEST REPORT

for

2.4GHz Radio Control System MODEL: T3HF Brand Name: MERITRC

Test Report Number: SZ091118B03-RP

Issued for

Shanghai Merit Technology Corp.
No.1058 Taogan Road, Sheshan Town,Songjiang District, Shanghai,
China, 201602

Issued by:

COMPLIANCE CERTIFICATION SERVICES (SHENZHEN) INC.

No10-1, Mingkeda Logistics Park, No.18 Huanguan South RD. Guan Ian Town, Baoan District, Shenzhen China

TEL: 86-755-28055000 FAX: 86-755-28055221

Issued Date: February 09, 2010







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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	February 09, 2010	Initial Issue	ALL	Clinton Kao



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1 TEST CERTIFICATION

Product: 2.4GHz Radio Control System

Model: T3HF

Brand: MERITRC

Tested: November 18, 2009 - February 09, 2010 **Applicant: Shanghai Merit Technology Corp.**

No.1058 Taogan Road, Sheshan Town, Songjiang District, Shanghai, China, 201602

Manufacturer: Shanghai Merit Technology Corp.

No.1058 Taogan Road, Sheshan Town, Songjiang District, Shanghai, China, 201602

APPLICABLE STANDARDS				
STANDARD TEST RESULT				
FCC 47 CFR Part 15 Subpart C	No non-compliance noted			
DEVIATION FROM APPLICABLE STANDARD				
None				

We hereby certify that:

Compliance Certification Service Inc.

The above equipment was tested by Compliance Certification Services Inc. 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 the requirements of FCC Rules Part 15.207, 15.209, 15.249.

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

Approved by:	Reviewed by:	
Sonte Lav	Frank Jan.	
Clinton Kao Manager	Vincent Yao Assistant manager	

Compliance Certification Service Inc.

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2 EUT DESCRIPTION

Product	2.4GHz Radio Control System
Trade Name	MERITRC
Model Number	T3HF
Model Discrepancy	N/A
Serial Number	SZ091118B03-RP
Power Supply	DC6V powered by the battery (AA 1.5V * 4)
Frequency Range	2406 -2470MHz
Transmit Power	101.96 dBuV/m (Peak Max.) 92.35 dBuV/m (Average Max.)
Modulation Technique	FHSS
Number of Channels	65 Channel
Antenna Specification	Dipole Antenna with 3dBi gain(Max)

Note: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

2. This submittal(s) (test report) is intended for <u>FCC ID: XJ6TXT3HFMR</u> filing to comply with Section 15.207, 15.209 and 15.249 of the FCC Part 15, Subpart C Rules.

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3 TEST METHODOLOGY

3.1. DESCRIPTION OF TEST MODES

The EUT had been tested under operating condition.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only.

Channel Low (2406MHz), Channel Mid (2442MHz) and Channel High (2470MHz) were chosen for the final testing.

The field strength of spurious radiation emission was measured in the following position: EUT stand-up position (Y mode) and lie-down position (X, Z mode) The following data show only the worst case setup.

The worst case (X axis) was reported.

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4 TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4:2003 and FCC CFR 15.209 and 15.249.

4.1. EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.109 under the FCC Rules Part 15 Subpart B and Section 15.209,15.249 under the FCC Rules Part 15 Subpart C.

4.2. FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

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² Above 38.6



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INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

SETUP OF EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1	N/A						

Note:

- All the equipment/cables were placed in the worst-case configuration to maximize the emission during the
- Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

6.2. CONFIGURATION OF SYSTEM UNDER TEST

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

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7 FACILITIES AND ACCREDITATIONS

7.1. FACILITIES

All measurement facilities used to collect the measurement data are located at

 No10-1, Mingkeda Logistics Park, No.18 Huanguan South RD. Guan Ian Town, Baoan District, Shenzhen China

The sites are constructed in conformance with the requirements of ANSI C63.4:2003, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

7.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA A2LA Taiwan TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA FCC Japan VCCI

Canada INDUSTRY CANADA

Taiwan BSMI Norway Nemko

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsrf.com

7.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty	
Conducted emissions	9kHz~30MHz	+/- 3.18dB	
Radiated emissions	30MHz ~ 200MHz	+/- 3.79dB	
Radiated emissions	200MHz ~1000MHz	+/- 3.62dB	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.

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8 FCC PART 15.249 REQUIREMENTS

8.1. BAND EDGES MEASUREMENT

LIMIT

1. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- 2. As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.
- 3. As shown in Section 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

MEASUREMENT EQUIPMENT USED

966 RF CHAMBER (2)							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL. DUE		
ESCI EMI TEST RECEIVE.ESCI	ROHDE&SCHWARZ	1166.5950 03	100783	03/20/2009	03/20/2010		
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2009	03/01/2010		
Low Noise Amplifier	MITEQ	AM-1604-3000	1123808	02/06/2010	02/06/2011		
Turn Table	EMCO	2081-1.21	N/A	N.C.R	N.C.R		
Controller	СТ	N/A	N/A	N.C.R	N.C.R		
High Noise Amplifier	Agilent	8449B	3008A01838	05/29/2009	05/29/2010		
Site NSA	C&C	N/A	N/A	N.C.R	N.C.R		
BILOG ANTENNA	SCHAFFNER	CBL6143	5082	06/08/2009	06/09/2010		
Horn Antenna	SCHAFFNER	BBHA9120D	1201	03/19/2009	03/19/2010		
Signal Generator	Anritsu	MG3694A	#050125	03/01/2009	03/01/2010		

Remark: Each piece of equipment is scheduled for calibration once a year.

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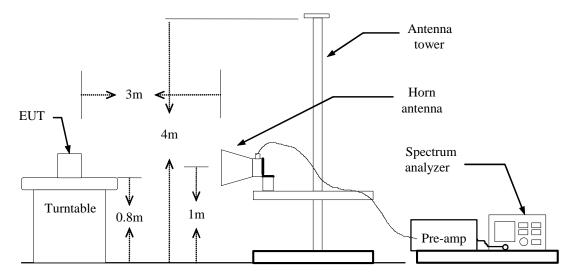
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Test Configuration



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

TEST RESULTS

Refer to attach spectrum analyzer data chart.



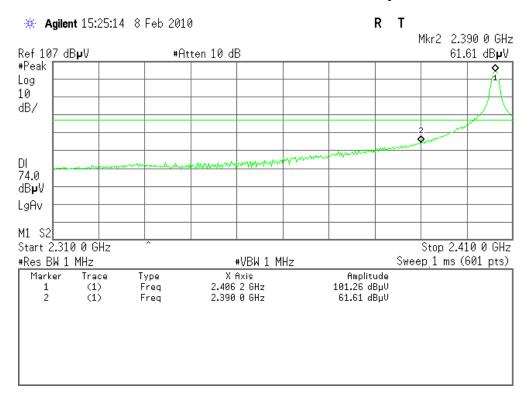
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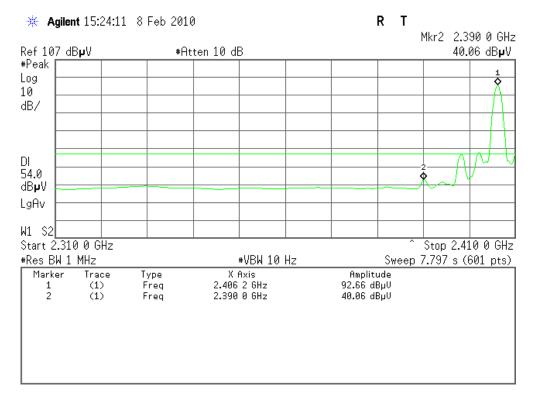
Test Data

Band Edges (CH-Low)

Detector mode: Peak Polarity: Vertical



Detector mode: Average Polarity: Vertical



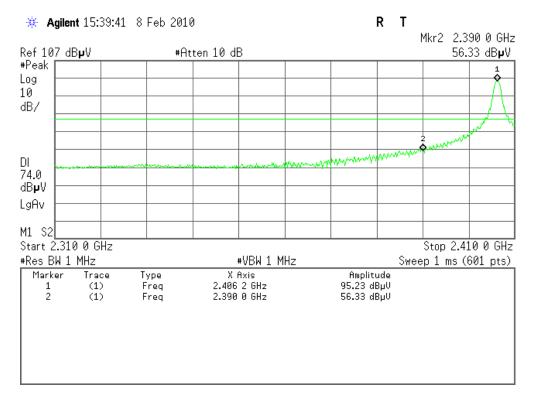
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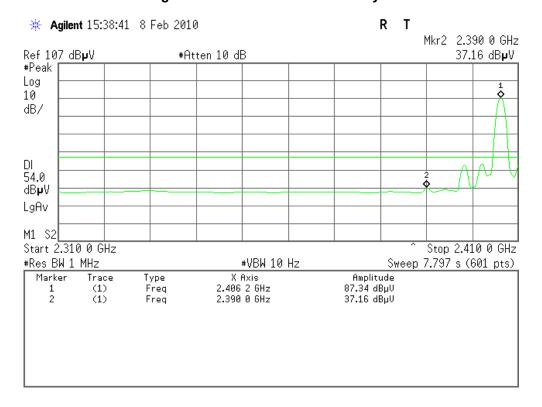
Reference No.:

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Detector mode: Peak Polarity: Horizontal



Detector mode: Average Polarity: Horizontal





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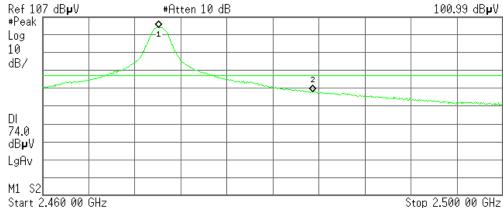
Band Edges (CH-High)

Detector mode: Peak Polarity: Vertical





Sweep 1 ms (601 pts)



#Res BW 1 MHz #VBW 1 MHz X Axis 2.470 07 GHz Amplitude 100.99 dBµV Marker Trace Type (1) (1) Freq

Freq

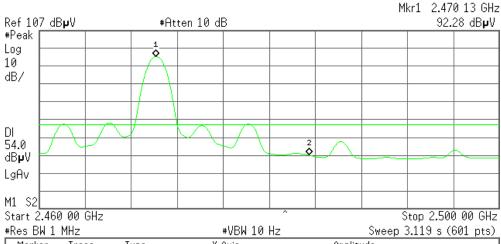
Polarity: Vertical Detector mode: Average

2.483 50 GHz

* Agilent 15:32:42 8 Feb 2010



64.91 dBµV



Marker Trace X Axis Amplitude Type 2.470 13 GHz 92.28 dBµV (1) Frea 2.483 50 GHz 37.14 dBµV

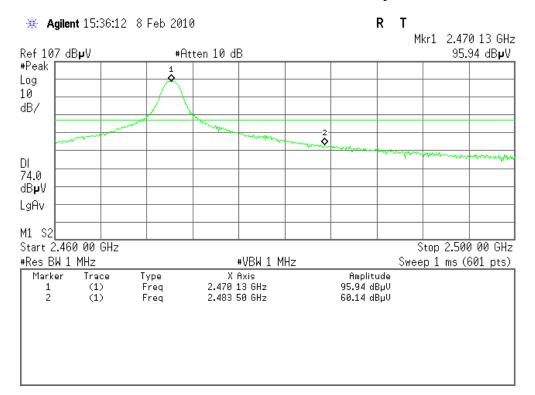


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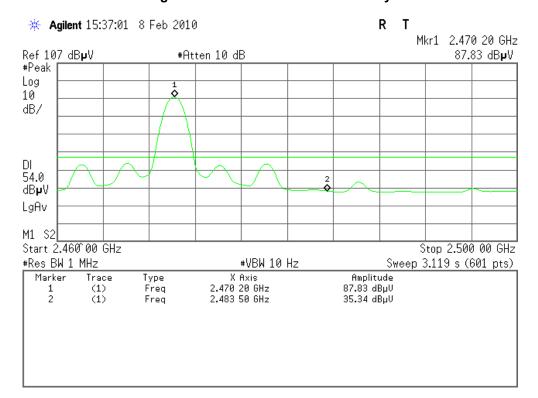
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Detector mode: Peak Polarity: Horizontal



Detector mode: Average Polarity: Horizontal



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8.2. POWER LINE CONDUCTED EMISSIONS MEASUREMENT

8.2.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range	Limits (dB _µ V)			
(MHz)	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 in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

TEST INSTRUMENTS

Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL.		
TYPE	WIFK	NUMBER	NUMBER	CAL.	DUE		
ESCI EMI TEST RECEIVE.ESCI	ROHDE&SCHWARZ	1166.5950 03	100145	03/20/2009	03/20/2010		
LISN	FCC	FCC-LISN-50-50-2-M	01068	03/01/2009	03/01/2010		
LISN	EMCO	3825/2	8901-1459	03/01/2009	03/01/2010		
CDN	FCC	FCC-TILISN-T4	20182	03/01/2009	03/01/2010		
CDN	FCC	FCC-TLISN-T8-02	20183	03/01/2009	03/01/2010		
CDN	FCC	FCC-TLISN-T4-02	20382	03/01/2009	03/01/2010		
CDN	FCC	FCC-TLISN-T4-02	20383	03/01/2009	03/01/2010		
CDN	FCC	FCC-801-T8-RJ45	04030	03/01/2009	03/01/2010		
Current Probe	STODDART AIRCRAFT	91550-1	345-73	03/01/2009	03/01/2010		

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

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8.2.2. TEST PROCEDURES (please refer to measurement standard)

• The EUT and Support equipment, if needed, was placed on a non-conducted table, which is 0.8m above the ground plane and 0.4m away from the conducted wall.

- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane. All support equipment power received from a second LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The frequency range from 150 kHz to 30 MHz was searched. The test data of the worst-case condition(s) was recorded. Emission levels under limit 20dB were not recorded.

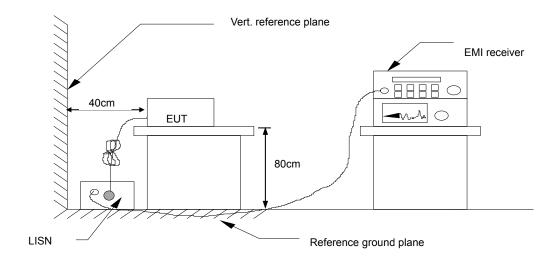
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8.2.3. TEST SETUP



For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.

8.2.4. Data Sample:

FREQ MHz	PEAK RAW dBuV	Q.P. RAW dBuV	AVG RAW dBuV	Q.P. Limit dBuV	AVG Limit dBuV	Q.P. Margin dB	AVG Margin dB	Note
x.xx	50.27	49.16	48.17	65.47	55.47	-16.31	-7.30	L

= Emission frequency in MHz Freq.

RAW dBuV = Uncorrected Analyzer/Received Reading +INSERTION LOSS of

LISN+CABLE LOSS+pulse limiter loss

Q.P. Limit dBuV = Limit stated in standard AVG Limit dBuV = Limit stated in standard

Q.P. Margin dB = Q.P. RAW (dBuV) -Q.P. Limit (dBuV) AVG Margin dB = AVG RAW (dBuV) –AVG Limit (dBuV)

Note = Current carrying line of reading

Q.P.: =Quasi-Peak

8.2.5. TEST RESULTS

Not applicable, since the EUT is powered by the battery.

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8.3. SPURIOUS EMISSIONS MEASUREMENT

8.3.1. LIMITS OF RADIATED EMISSIONS MEASUREMENT

1. In the section 15.249(a):

Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	Field Strength (mV/m)	(µV/m)
902-928 MHz	50	500
2400 - 2483.5 MHz	50	500
5725 - 5875 MHz	50	500
24.0 - 24.25 GHz	250	2500

2. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

3. In the above emission table, the tighter limit applies at the band edges.

Fraguanay (Uz)	Field Strength	Field Strength
Frequency (Hz)	(μV/m at 3-meter)	(dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

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8.3.2. TEST INSTRUMENTS

	90	66 RF CHAMBE	R (2)		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL.
TYPE	IWIFK	NUMBER	NUMBER	CAL.	DUE
ESCI EMI TEST RECEIVE.ESCI	ROHDE&SCHWARZ	1166.5950 03	100783	03/20/2009	03/20/2010
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2009	03/01/2010
Low Noise Amplifier	MITEQ	AM-1604-3000	1123808	02/06/2010	02/06/2011
Turn Table	EMCO	2081-1.21	N/A	N.C.R	N.C.R
Controller	СТ	N/A	N/A	N.C.R	N.C.R
High Noise Amplifier	Agilent	8449B	3008A01838	05/29/2009	05/29/2010
Site NSA	C&C	N/A	N/A	N.C.R	N.C.R
BILOG ANTENNA	SCHAFFNER	CBL6143	5082	06/08/2009	06/09/2010
Horn Antenna	SCHAFFNER	BBHA9120D	1201	03/19/2009	03/19/2010
Signal Generator	Anritsu	MG3694A	#050125	03/01/2009	03/01/2010
Loop Antenna	ARA	PLA-1030/B	1029	02/24/2010	02/24/2011

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Required.

8.3.3 TEST PROCEDURE (please refer to measurement standard)

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

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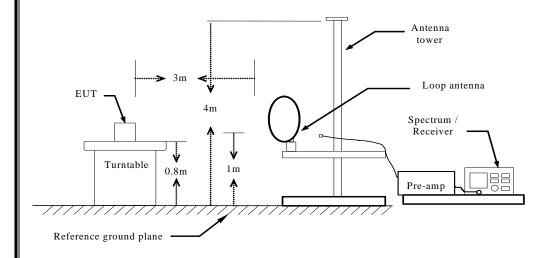


Reference No.:

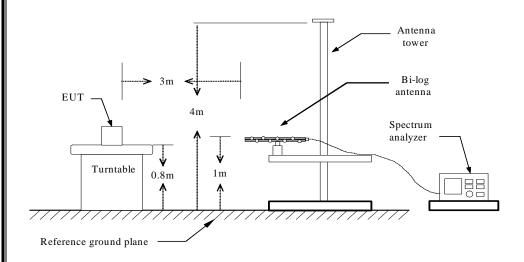
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8.3.2.1. TEST SETUP

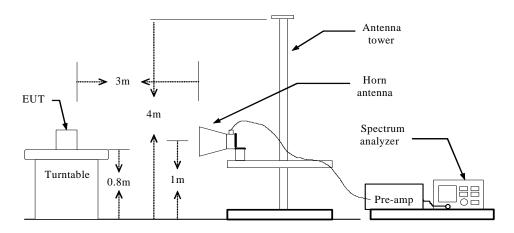
Below 30MHz



Below 1 GHz



Above 1 GHz



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



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8.3.2.2. Data Sample:

Below 1 GHz

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Remark) (dBuV)	Correction Factor (dB/m)	Result (Remark) (dBuV/m)	Limit (Peak) (dBuV/m)	Margin (dB)	Remark
XXX	V	12.12	10.21	22.33	40.00	-17.67	Peak

Above 1 GHz

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	(AR)	Remark
XXX	V	65.45	63.00	-11.12	54.33	51.88	74.00	54.00	-2.12	AVG

Frequency (MHz) = Emission frequency in MHz

Ant.Pol. (H/V) = Antenna polarization

Reading (dBuV) = Uncorrected Analyzer / Receiver reading Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Remark Result (dBuV/m) – Limit (dBuV/m)

Peak = Peak Reading QP = Quasi-peak Reading

AVG = Average Reading

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Reference No.:

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8.3.2.3. TEST RESULTS

Below 1 GHz

Operation Mode: February 08, 2010 Normal Link **Test Date:**

Temperature: 22°C Tested by: Tom Gan **Humidity:** 65 % RH Polarity: Ver. / Hor.

Freq.	Ant.Pol.	Detector	Reading	Factor	Actual FS	Limit 3m	Safe Margin
(MHz)	H/V	Mode	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
		(PK/QP)					
35.400	V	Peak	44.36	-15.82	28.54	40.00	-11.46
60.150	V	Peak	39.79	-19.60	20.19	40.00	-19.81
143.850	V	Peak	40.99	-19.22	21.77	43.50	-21.73
175.800	V	Peak	39.17	-18.60	20.57	43.50	-22.93
401.500	V	Peak	36.05	-11.52	24.53	46.00	-21.47
632.500	V	Peak	32.90	-5.48	27.42	46.00	-18.58
33.600	Н	Peak	43.21	-14.64	28.57	40.00	-11.43
46.200	Н	Peak	33.15	-19.19	13.96	40.00	-26.04
60.150	Н	Peak	42.26	-19.60	22.66	40.00	-17.34
287.400	Н	Peak	34.04	-14.78	19.26	46.00	-26.74
395.666	Н	Peak	33.16	-11.71	21.45	46.00	-24.55
497.166	Н	Peak	33.65	-9.30	24.35	46.00	-21.65

^{**}Remark: No emission found between lowest internal used/generated frequency to 30 MHz.

Notes:

- 1. Measuring frequencies from 9kHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30MHz to 1GHz were made with an instrument using Peak/Quasi-peak detector mode.
- 3. Data 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.

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Above 1 GHz

Operation Mode: February 08, 2010 TX / CH Low Test Date:

22°C Temperature: Tested by: Tom Gan **Humidity:** 65 % RH Polarity: Ver. / Hor.

Fundamental

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	Peak Margin	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)	(dB)
					(dBuV/m)	(dBuV/m)				
2406.000	٧	105.03	95.71	-3.85	101.18	91.86	114	94	-12.82	-2.14
2406.000	Н	102.47	92.50	-3.85	98.62	88.65	114	94	-15.38	-5.35

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	Margin (dB)	
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)		Remark
					(dBuV/m)	(dBuV/m)				
1733.333	V	47.57		-7.57	40.00		74.00	54.00	-14.00	Peak
1960.000	V	48.25		-5.78	42.47		74.00	54.00	-11.53	Peak
2093.333	V	49.30		-5.09	44.21		74.00	54.00	-9.79	Peak
4808.333	V	52.92	49.42	2.65	55.57	52.07	74.00	54.00	-1.93	AVG.
N/A										
1753.333	Н	48.00		-7.41	40.59		74.00	54.00	-13.41	Peak
1850.000	Н	47.90		-6.65	41.25		74.00	54.00	-12.75	Peak
2036.666	Н	46.89		-5.31	41.58		74.00	54.00	-12.42	Peak
4808.333	Н	55.61	49.37	2.65	58.26	52.02	74.00	54.00	-1.98	AVG.
N/A										

REMARKS:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data 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. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Reference No.:

Report No.: SZ091118B03-RP

Operation Mode: TX / CH Mid Test Date: February 08, 2010

Temperature:22°CTested by:Tom GanHumidity:65% RHPolarity:Ver. / Hor.

Fundamental

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	Peak Margin	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)	(dB)
					(dBuV/m)	(dBuV/m)				
2442.000	٧	105.20	95.73	-3.70	101.50	92.03	114	94	-12.50	-1.97
2442.000	Н	103.51	93.39	-3.70	99.81	89.69	114	94	-14.19	-4.31

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	Margin (dB)	Damada
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)		Remark
					(dBuV/m)	(dBuV/m)				
1746.667	V	47.82		-7.47	40.35		74.00	54.00	-13.65	Peak
1936.666	V	47.40		-5.96	41.44		74.00	54.00	-12.56	Peak
2286.666	V	51.98		-4.32	47.66		74.00	54.00	-6.34	Peak
4883.333	V	53.59	50.09	2.78	56.37	52.87	74.00	54.00	-1.13	AVG.
N/A										
1590.000	Н	47.70		-8.71	38.99		74.00	54.00	-15.01	Peak
1833.333	Н	48.27		-6.78	41.49		74.00	54.00	-12.51	Peak
1956.666	Н	48.39		-5.80	42.59		74.00	54.00	-11.41	Peak
4883.333	Н	48.48	48.48	2.78	56.45	51.26	74.00	54.00	-2.74	AVG.
N/A										
								·		

REMARKS:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data 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. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Reference No.:

Report No.: SZ091118B03-RP

Operation Mode: TX / CH High **Test Date:** February 08, 2010

Temperature:22°CTested by:Tom GanHumidity:65 % RHPolarity:Ver. / Hor.

Fundamental

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actual Fs		Peak Limit	AV Limit	Peak Margin	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	,	(dBuV/m)	(dB)	(dB)
					(aBuV/m)	(dBuV/m)				
2470.000	V	105.56	95.95	-3.60	101.96	92.35	114	94	-12.04	-1.65
2470.000	Н	103.90	93.75	-3.60	100.30	90.15	114	94	-13.70	-3.85

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actual Fs		Peak Limit	AV Limit	Margin (dB)	
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)		Remark
					(dBuV/m)	(dBuV/m)				
1713.333	V	48.48		-7.73	40.75		74.00	54.00	-13.25	Peak
1866.666	V	48.14		-6.52	41.62		74.00	54.00	-12.38	Peak
2116.666	V	48.28		-5.00	43.28		74.00	54.00	-10.72	Peak
4941.666	V	54.38	50.04	2.88	57.26	52.92	74.00	54.00	-1.08	AVG.
N/A										
1483.333	Н	49.55		-9.51	40.04		74.00	54.00	-13.96	Peak
1920.000	Н	47.15		-6.09	41.06		74.00	54.00	-12.94	Peak
2253.333	Н	48.26		-4.46	43.80		74.00	54.00	-10.20	Peak
4941.666	Н	53.82	48.74	2.88	56.70	51.62	74.00	54.00	-2.38	AVG.
N/A										
								·	·	

REMARKS:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data 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. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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