APPLICATION FOR CERTIFICATION
Class II PERMISSIVE CHANGE

On Behalf of

FUTABA Corporation

Radio Control

Model No.：T3PRKA-2.4G

FCC ID：AZPT2POK-24G

Brand: Futaba

Prepared for : FUTABA Corporation
1080 Yabutsuka Chosei-son Chosei-gun
Chiba, 299-4395 Japan.

Prepared by : AUDIX Technology Corporation
EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
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File Number	：	C1M1103342
Report Number	：	EM-F1000365
Date of Test	：	Apr. 01 ~ 12, 2011
Date of Report	：	Mar. 20, 2011

TABLE OF CONTENTS

TEST REPORT CERTIFICATION
(Class II Permissive Change)

Applicant	:	FUTABA Corporation
Manufacturer	:	FUTABA Corporation
EUT Description	:	Radio Control
FCC ID	:	AZPT2POK-24G
	(A) Model No.	: T3PRKA-2.4G
	(B) Serial No.	: N/A
	(C) Brand	: Futaba
	(D) Power Supply	: DC 6V
	(E) Test Voltage	: DC 6V (Via Batteries)

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, Oct. 2009
AND ANSI C63.4/2003

(FCC CFR 47 Part 15C, §15.207 and §15.209 and §15.247)

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart B & C limits.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

This report is based on reports of EM-F1000217.

Date of Test : Apr. 01 ~ 12, 2011 Date of Report : Apr 20, 2011

Producer : Annie Yu
(Annie Yu/Assistant Administrator)

Reviewer : Henning Chang
(Henning Chang/Supervisor)

Signatory : Ben Cheng
(Ben Cheng/Manager)

1. DESCRIPTION OF VERSION

Edition No.	Date of Rev.	Summary	Report No.
Rev. 0	Mar. 14, 2011	Original Report. (Original model: T2POK-2.4G)	EM-F1000217
Rev. 1	Apr. 20, 2011	1. According to 178919 D01 Permissive Change Policy v04r06, our change for FCC ID: AZPT2POK-24G is complied with C2PC policy and we would like to apply C2PC for FCC ID: AZPT2POK-24G. The different with original grant is changed assembly (control buttons) and host. RF and others' schematic are identical with original grant. 2. Supplementary test data are recorded in report of EM-F1000365.	EM-F1000365

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	Radio Control (Transmitter Unit)
Model Number	:	T3PRKA-2.4G
Serial Number	:	N/A
FCC ID	:	AZPT2POK-24G
Applicant	:	FUTABA Corporation 1080 Yabutsuka Chosei-son Chosei-gun Chiba, 299-4395 Japan.
Manufacturer	:	FUTABA Corporation 1080 Yabutsuka Chosei-son Chosei-gun Chiba, 299-4395 Japan.
Radio Technology	:	FSK Modulation
Frequency Band	:	2404.000MHz ~ 2447.500MHz
Tested Frequency	:	2404.000MHz (Channel 01) 2425.000MHz (Channel 15) 2447.500MHz (Channel 30)
Frequency Channel	:	30 channels
Antenna (Pencil Antenna)	:	Antenna Gain: 2.14dBi
Date of Receipt of Sample	:	Mar. 21, 2011
Date of Test	:	Apr. 01 ~ 12, 2011

Information for Class II Permissive Change:

1. This EUT is additional version with original FCC ID AZPT2POK-24G.
2. According to 178919 D01 Permissive Change Policy v04r06, our change for FCC ID: AZPT2POK-24G is complied with C2PC policy and we would like to apply C2PC for FCC ID: AZPT2POK-24G. The different with original grant is changed assembly (control buttons) and host. RF and others' schematic are identical with original grant. For more detail change, please refer to following table.

No	item	T2POK (original grant)	T3PRKA
1	Host	for T2POK only	for T3PRKA only
2	2ch EPA end point adjuster (adjust servo travel range)	none	support
3	3ch	none	support
4	1ch Dual Rate (adjust servo travel range)	placed the left upper of the wheel	placed the left under of the wheel
5	trim volume	placed top side of the case	placed front side of the case

Remark: For Item 2 and 3, T2POK and T3PRKA are use the same firmware but T3PRKA is built with new button then can support these functions and it won't make any affect on RF power and modulation with original grant. For item4 and 5 are control buttons' location different only.

3. This report is based on reports of EM-F1000365.

2.2. Description of Test Facility

Name of Firm	:	**AUDIX Technology Corporation** **EMC Department** No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien, Taiwan
Test Location & Facility (AC)	:	**Semi-Anechoic Chamber** No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien, Taiwan. May 14, 2009 Renewal on Federal Communication Commission Registration Number: 90993
NVLAP Lab. Code	:	200077-0
TAF Accreditation No	:	1724

2.3. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Radiation Test (Distance: 3m)	30MHz~300MHz	±2.91dB
	300MHz~1000MHz	±2.94dB
	Above 1GHz	± 5.02dB

Remark **:** Uncertainty = $ku_c(y)$

Test Item	Uncertainty
20dB Bandwidth	± 0.2kHz
Carrier Frequency Separation	± 0.2kHz
Time Of Occupancy	± 0.03sec
Maximum peak Output power	± 0.52dBm
Emission Limitations	± 0.13dB
Band Edges	± 0.13dB

3. CONDUCTED EMISSION MEASUREMET

【The EUT only employs battery power for operation, no conductive emission limits are required according to FCC Part 15 Section §15.207】

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

4.1.1. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10’	Aug. 03, 11’
2.	Test Receiver	R & S	ESCS30	100265	Sep. 01, 10’	Aug. 31, 11’
3.	Pre-Amplifier	HP	8447D	2944A06305	Feb. 10, 11’	Feb. 09, 12’
4.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 08, 11’	Mar. 07, 12’
5.	Log Periodic Antenna	Schwarzbeck	UHALP9108-A	0810	Mar. 08, 11’	Mar. 07, 12’

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

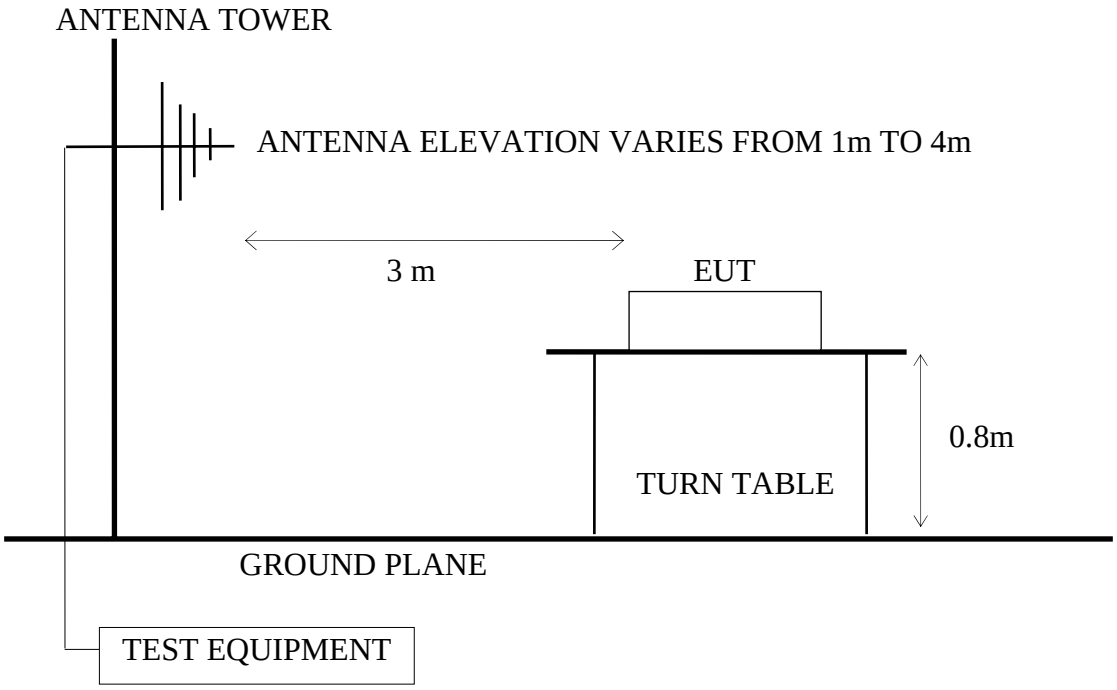
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10’	Aug. 03, 11’
2.	Pre-Amplifier	HP	8449B	3008A00529	Dec. 10, 10’	Dec. 09, 11’
3.	2.4GHz Notch Filter	EWT	EWT-14-0070-R1	G2	Dec. 03, 11’	Dec. 02, 12’
4.	3.5G High Pass Filter	HP	84300-80038	005	Jan. 05, 11’	Jan. 04, 12’
5.	Horn Antenna	EMCO	3115	9112-3775	May 10, 10’	May 09, 11’
6.	Horn Antenna	EMCO	3116	2653	Oct. 04, 10’	Oct. 03, 11’

4.2. Test Setup

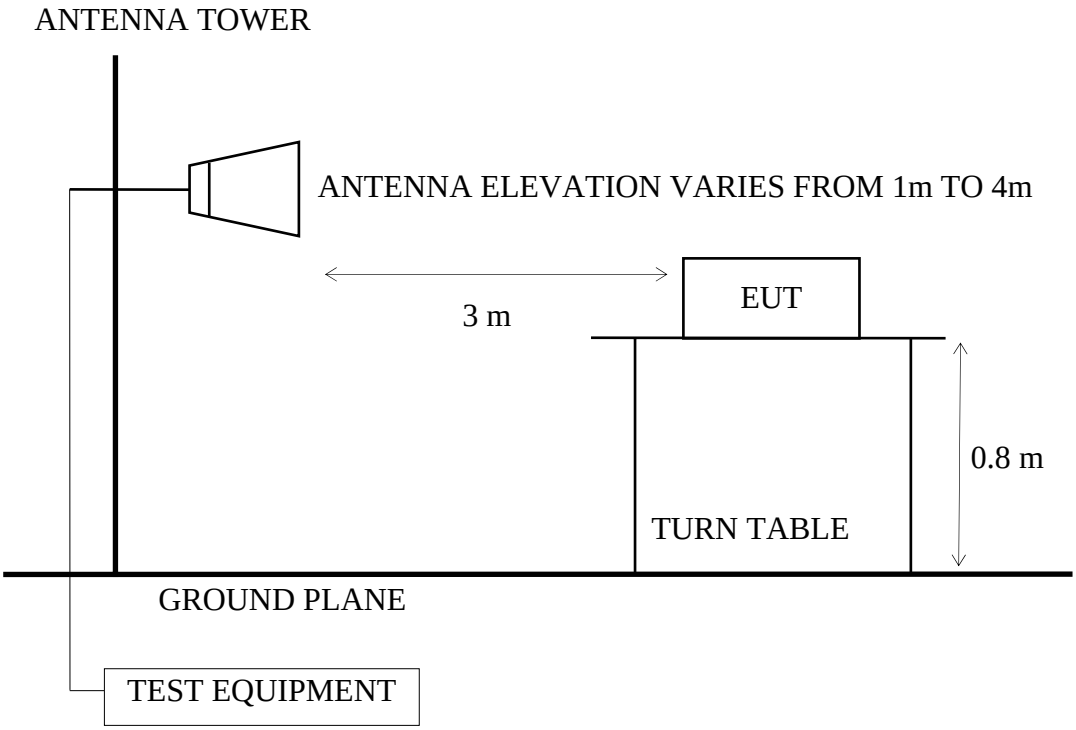
4.2.1. Block Diagram of connection between EUT and simulators

RADIO CONTROL (EUT)

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



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



4.3. Radiated Emission Limits (§15.209)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		μV/m	dBμV/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

Remark：(1) Emission level (dBμV/m) = 20 log Emission level (μV/m)

(2) The tighter limit applies at the edge between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).

(5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

4.4. Operating Condition of EUT

4.4.1. Set up the EUT (Radio Control) as shown on 4.2.

4.4.2. To turn on the power of all equipment.

4.4.3. The EUT was set the PC system using test program “Futaba Term”.

4.4.4. Transmit Mode: The EUT was set to continuously transmit signals at 2404.000MHz、2425.000MHz and 2447.500MHz during testing.

4.4.5. Receive Mode: The EUT was set to continuously receive signals at 2425.000MHz during testing.

4.5. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set to 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna could be moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log-periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz. (For 30MHz to 1000MHz)

The resolution bandwidth and video bandwidth of test spectrum analyzer is 1MHz for peak detection (PK) at frequency above 1GHz.

The resolution bandwidth of test spectrum analyzer is 1MHz and the video bandwidth is 10Hz for average detection (AV) at frequency above 1GHz.

The frequency range from 30MHz to 25GHz (Up to 10^{th} harmonics from fundamental frequency) was checked.

Above 1GHz was measured with peak and average detector. For frequency from 7.5GHz to 25GHz, we checked it in 1 meter distance and with a shorter cable 2 meter instead of original's. There is no signal exist.

4.6. Radiated Emission Measurement Results

PASSED.

(All emissions not reported below are too low against the prescribed limits.)

EUT：Radio Control M/N：T3PRKA-2.4G

Test Date：Apr. 12, 2011 Temperature：23℃ Humidity：52%

For Frequency Range 30MHz~1000MHz:

The EUT emitted the fundamental frequency with data code at the stand, side and lying conditions.

The EUT select **worst position "stand"** and with following test modes was performed during this section testing and all the test results are listed in section 4.6.1.

Mode	Channel	Frequency	Test Mode	Position	Reference Test Data	
					Horizontal	Vertical
1.	01	2404.000MHz	Transmit	Stand	# 13	# 14
2.	15	2425.000MHz		Stand	# 13	# 14
3.	30	2447.500MHz		Stand	# 13	# 14
4.	15	2425.000MHz	Receive	Stand	# 7	# 8

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

For Frequency above 1GHz:

The EUT with following test modes was performed during this section testing and all the test results are listed in section 4.6.2.

Mode	Chnnel	Frequency	Test Mode	Position	Test Frequency Range
1.	01	2404.000MHz	Transmit	Stand	**1000-2680MHz***
2.					2680-4000MHz
3.					**4000-5500MHz***
4.					**5500-7500MHz***
5.					**7500-12750MHz***
6.					12750-18000MHz
7.	15	2425.000MHz	Transmit	Stand	**1000-2680MHz***
8.					2680-4000MHz
9.					**4000-5500MHz***
10.					**5500-7500MHz***
11.					**7500-12750MHz***
12.					12750-18000MHz
13.	30	2447.500MHz	Transmit	Stand	**1000-2680MHz***
14.					2680-4000MHz
15.					**4000-5500MHz***
16.					**5500-7500MHz***
17.					**7500-12750MHz***
18.					12750-18000MHz
19.	15	2425.000MHz	Receive	Stand	1000-2680MHz
20.					2680-5500MHz
21.					5500-18000MHz

Remark 1：The emissions level were too low against the official limit and not report.

Remark 2：”*” means there is spurious emission falling the frequency band and be measures.

For Restricted Bands:

The EUT was tested in restricted bands and all the test results are listed in section 4.6.3. (The restricted bands defined in part 15.205(a))

Mode	Channel	Frequency	Test Mode	Reference Test Data	
				Horizontal	Vertical
1.	01	2404.000MHz	Transmit	# 2	# 1
2.	30	2447.500MHz	Transmit	# 3	# 4

4.6.1. Frequency Range 30-1000MHz

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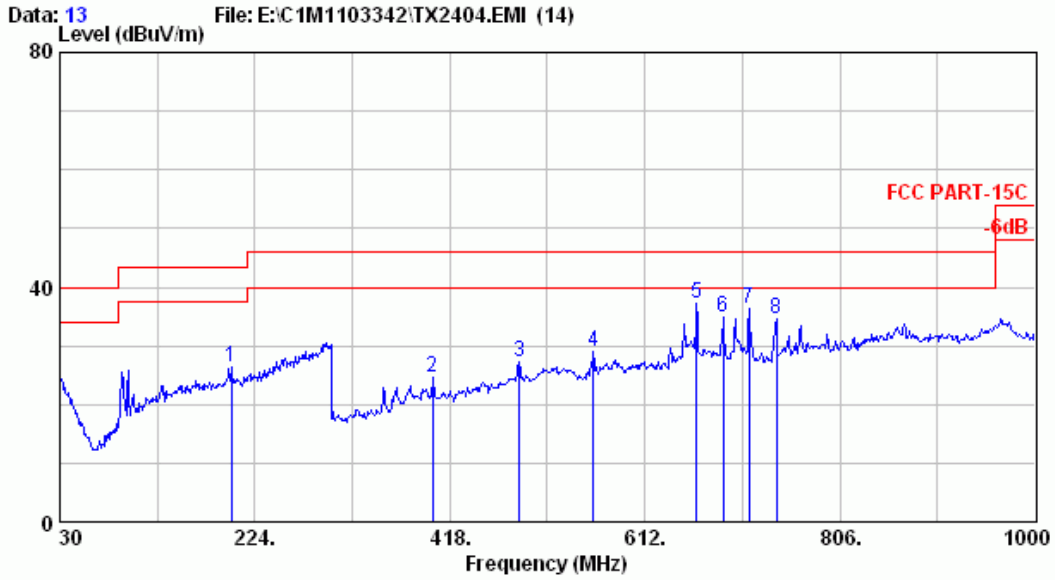

Site no. : A/C Chamber Data no. : 13
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 23*C /52%
EUT : T3PRKA-24G
Power Rating : DC 6V
Test Mode : TX2404

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	200.720	22.08	3.00	1.39	26.47	43.50	17.03	
2	400.540	17.66	4.80	2.14	24.60	46.00	21.40	
3	486.870	18.67	6.20	2.32	27.19	46.00	18.81	
4	560.590	20.03	6.70	2.15	28.88	46.00	17.12	
5	663.410	22.52	6.32	8.42	37.25	46.00	8.75	
6	689.600	23.25	6.50	5.13	34.88	46.00	11.12	
7	715.790	22.74	6.55	7.08	36.38	46.00	9.62	
8	742.950	22.56	6.70	5.30	34.56	46.00	11.44	

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

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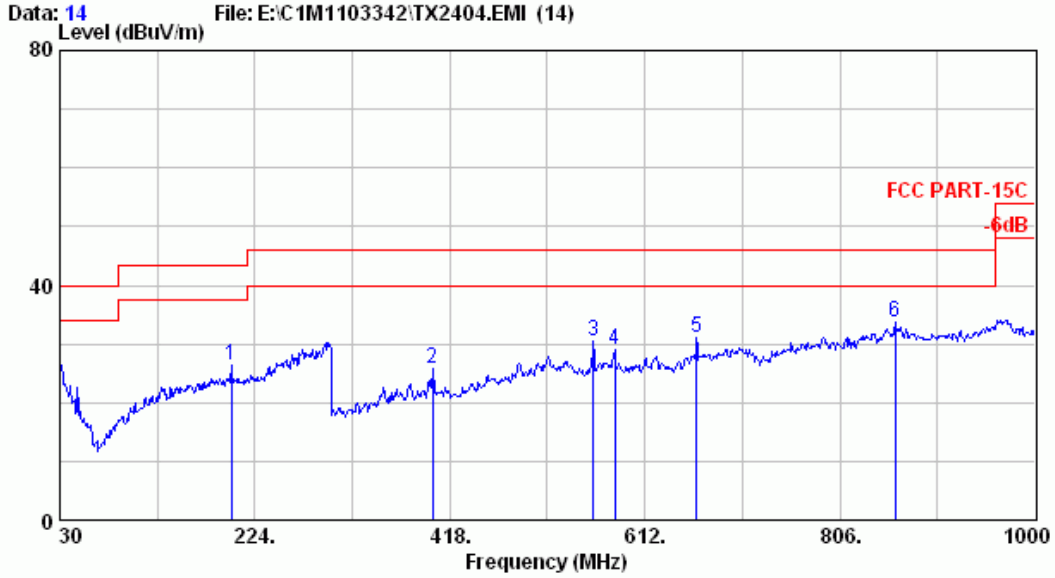

Site no. : A/C Chamber Data no. : 14
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 23*C /52%
EUT : T3PRKA-24G
Power Rating : DC 6V
Test Mode : TX2404

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	200.720	22.08	3.00	1.19	26.27	43.50	17.23	
2	400.540	17.66	4.80	3.44	25.90	46.00	20.10	
3	560.590	20.03	6.70	3.86	30.59	46.00	15.41	
4	581.930	20.91	6.30	1.85	29.06	46.00	16.94	
5	663.410	22.52	6.32	2.14	30.97	46.00	15.03	
6	861.290	26.09	7.20	0.35	33.64	46.00	12.36	

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

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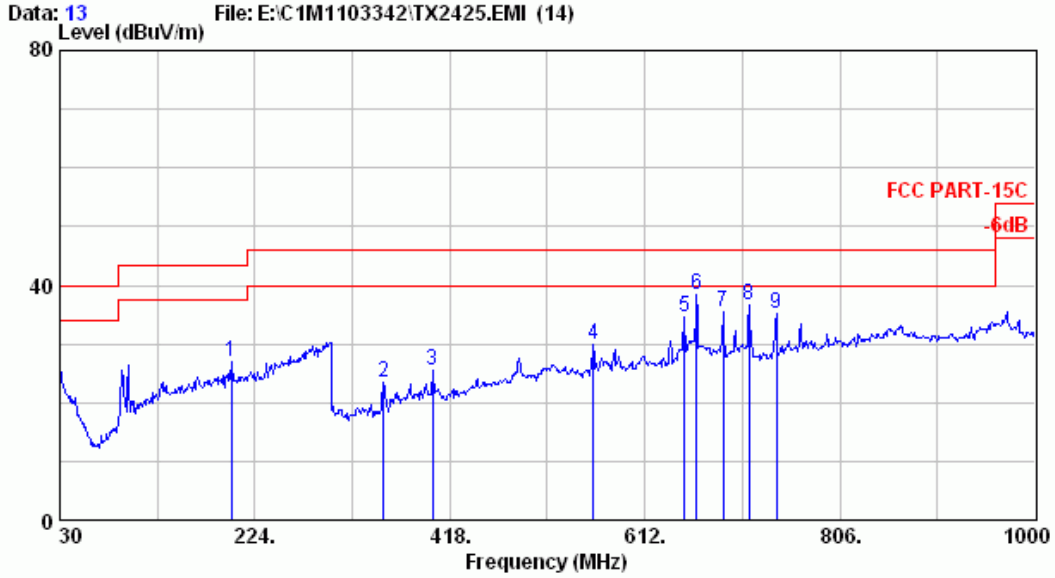

Site no. : A/C Chamber Data no. : 13
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 23*C /52%
EUT : T3PRKA-24G
Power Rating : DC 6V
Test Mode : TX2425

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	200.720	22.08	3.00	1.74	26.82	43.50	16.68	
2	352.040	15.55	4.30	3.52	23.38	46.00	22.62	
3	400.540	17.66	4.80	2.92	25.38	46.00	20.62	
4	560.590	20.03	6.70	3.27	30.00	46.00	16.00	
5	651.770	21.72	6.30	6.59	34.60	46.00	11.40	
6	663.410	22.52	6.32	9.52	38.35	46.00	7.65	
7	689.600	23.25	6.50	5.68	35.43	46.00	10.57	
8	715.790	22.74	6.55	7.39	36.69	46.00	9.31	
9	742.950	22.56	6.70	5.95	35.21	46.00	10.79	

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

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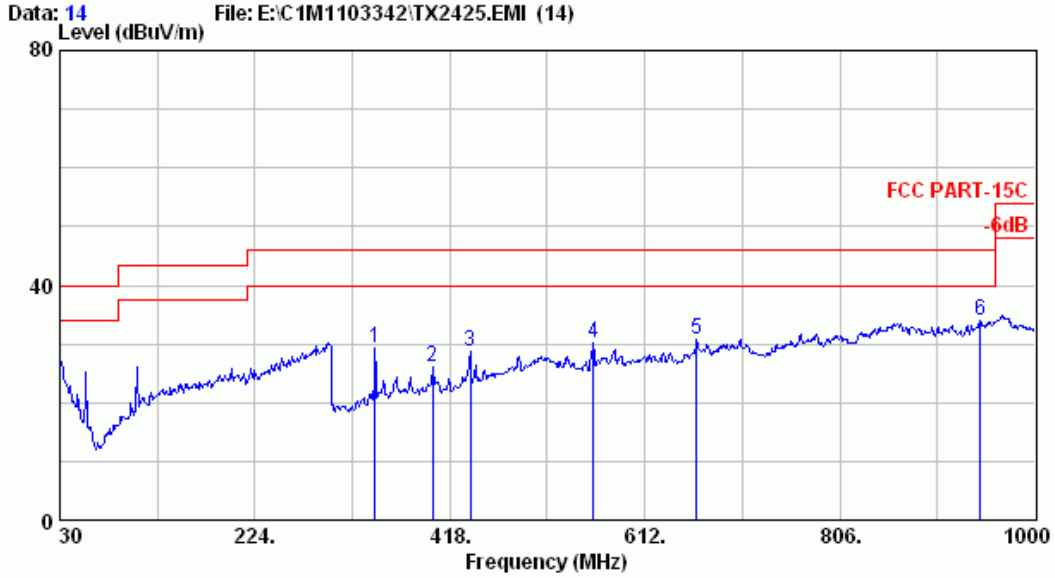

Site no. : A/C Chamber Data no. : 14
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 23*C /52%
EUT : T3PRKA-24G
Power Rating : DC 6V
Test Mode : TX2425

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	343.310	15.05	4.34	9.99	29.37	46.00	16.63	
2	400.540	17.66	4.80	3.72	26.18	46.00	19.82	
3	438.370	17.53	5.30	5.79	28.63	46.00	17.37	
4	560.590	20.03	6.70	3.44	30.17	46.00	15.83	
5	663.410	22.52	6.32	1.98	30.81	46.00	15.19	
6	945.680	25.68	7.50	0.88	34.06	46.00	11.94	

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

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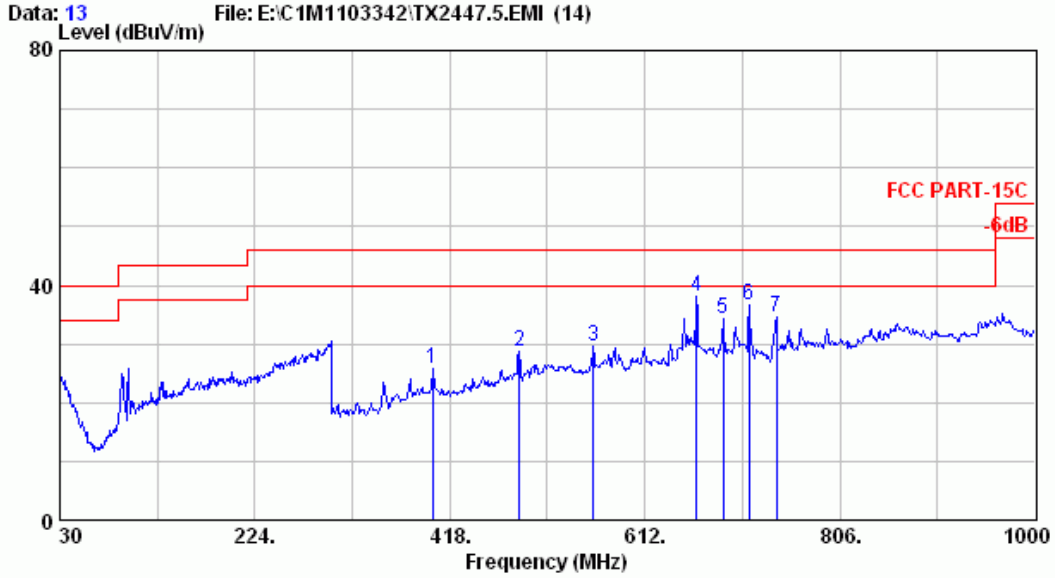

Site no. : A/C Chamber Data no. : 13
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 23*C /52%
EUT : T3PRKA-24G
Power Rating : DC 6V
Test Mode : TX2447.5

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	400.540	17.66	4.80	3.30	25.76	46.00	20.24	
2	486.870	18.67	6.20	3.93	28.80	46.00	17.20	
3	560.590	20.03	6.70	2.96	29.69	46.00	16.31	
4	663.410	22.52	6.32	9.36	38.19	46.00	7.81	
5	689.600	23.25	6.50	4.59	34.34	46.00	11.66	
6	715.790	22.74	6.55	7.39	36.69	46.00	9.31	
7	742.950	22.56	6.70	5.42	34.68	46.00	11.32	

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

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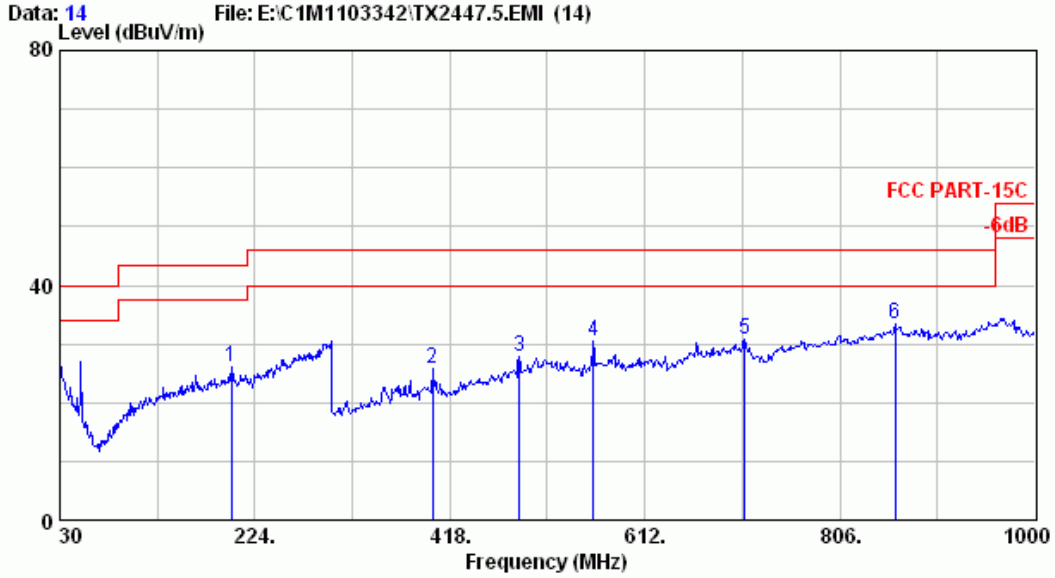

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Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 23*C /52%
EUT : T3PRKA-24G
Power Rating : DC 6V
Test Mode : TX2447.5

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	200.720	22.08	3.00	1.05	26.13	43.50	17.37	
2	400.540	17.66	4.80	3.39	25.85	46.00	20.15	
3	486.870	18.67	6.20	2.83	27.70	46.00	18.30	
4	560.590	20.03	6.70	3.79	30.52	46.00	15.48	
5	710.940	23.54	6.51	0.79	30.83	46.00	15.17	
6	861.290	26.09	7.20	0.17	33.46	46.00	12.54	

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

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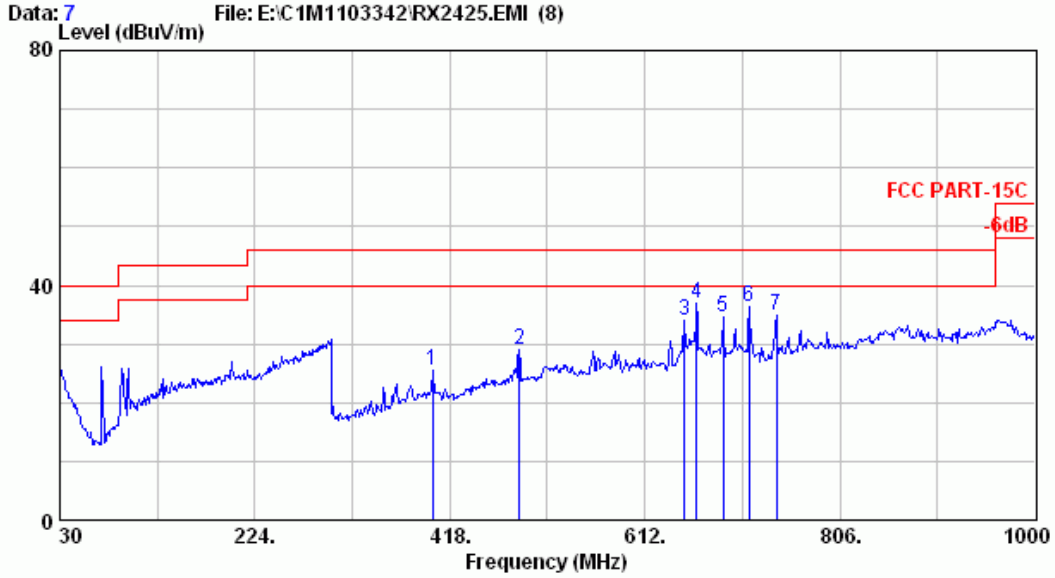

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 23*C /52%
EUT : T3PRKA-24G
Power Rating : DC 6V
Test Mode : RX2425

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	400.540	17.66	4.80	2.92	25.38	46.00	20.62	
2	486.870	18.67	6.20	4.19	29.06	46.00	16.94	
3	651.770	21.72	6.30	5.98	33.99	46.00	12.01	
4	663.410	22.52	6.32	7.97	36.80	46.00	9.20	
5	689.600	23.25	6.50	4.88	34.63	46.00	11.37	
6	715.790	22.74	6.55	7.03	36.33	46.00	9.67	
7	742.950	22.56	6.70	5.67	34.93	46.00	11.07	

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

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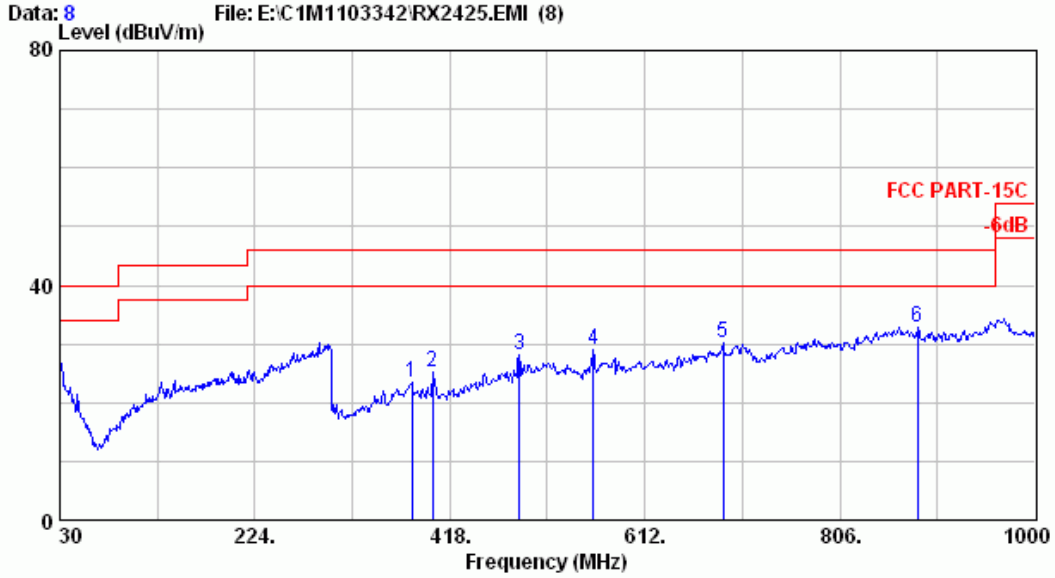

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 23*C /52%
EUT : T3PRKA-24G
Power Rating : DC 6V
Test Mode : RX2425

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	380.170	17.25	4.60	1.48	23.33	46.00	22.67	
2	400.540	17.66	4.80	2.79	25.25	46.00	20.75	
3	486.870	18.67	6.20	3.39	28.26	46.00	17.74	
4	560.590	20.03	6.70	2.36	29.09	46.00	16.91	
5	689.600	23.25	6.50	0.56	30.31	46.00	15.69	
6	883.600	25.27	7.30	0.36	32.93	46.00	13.07	

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

4.6.2. Above 1GHz Frequency Range Measurement Results

Date of Test： Apr. 12, 2011 Temperature： 23℃

EUT： Radio Control Humidity： 52%

Test Mode： Transmitting Mode, Frequency: 2404MHz, Position: Stand

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading Horizontal (dBμV)	Emission Level Horizontal (dBμV/m)	Limits (dBμV/m)	Margin (dB)
	2249.920	27.96	6.17	11.30	45.43	74.00	28.57
	2330.560	28.03	6.26	16.61	50.90	74.00	23.10
	4808.500	32.92	9.14	14.30	56.37	74.00	17.63
	7208.000	35.84	11.25	16.25	63.34	74.00	10.66
*	9621.000	37.77	13.03	13.48	64.28	83.50	19.22

Remarks: 1. Emission level=Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. All final readings of measurement were with Peak values.
4. *: Measured at 1m and limit is transformed to 83.5 by adding a factor 9.5 which is calculated from 20log(3/1).

Emission Frequency (MHz)	Peak Value (dB/m)	PDCF (dB)	Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2249.92	45.43	-30.34	15.09	54.00	38.91
2330.56	50.9	-30.34	20.56	54.00	33.44
4805.50	56.37	-30.34	26.03	54.00	27.97
7208.00	63.34	-30.34	33.00	54.00	21.00
* 9621.00	64.28	-30.34	33.94	63.50	29.56

Remarks: 1. PDCF=20log(dwell time/100ms)=20log(3.041ms/100ms)=-30.34
2. Average value=Peak value+PDCF
3. All final readings of measurement were with Average values.
4. *: Measured at 1m and limit is transformed to 63.5 by adding a factor 9.5 which is calculated from 20log(3/1).

Date of Test： Apr. 12, 2011 Temperature： 23℃

EUT： Radio Control Humidity： 52%

Test Mode： Transmitting Mode, Frequency: 2404MHz, Position: Stand

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading Vertical (dBμV)	Emission Level Vertical (dBμV/m)	Limits (dBμV/m)	Margin (dB)
	2249.920	27.96	6.17	13.62	47.75	74.00	26.25
	2330.560	28.03	6.26	19.80	54.09	74.00	19.91
	2565.760	28.45	6.58	14.54	49.57	74.00	24.43
	4808.500	32.92	9.14	21.04	63.11	74.00	10.89
	7208.000	35.84	11.25	23.33	70.42	74.00	3.58
*	9621.000	37.77	13.03	12.53	63.33	83.50	20.17

Remarks: 1. Emission level=Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. All final readings of measurement were with Peak values.
4. *: Measured at 1m and limit is transformed to 83.5 by adding a factor 9.5 which is calculated from 20log(3/1).

Emission Frequency (MHz)	Peak Value (dB/m)	PDCF (dB)	Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2254.96	47.75	-30.34	17.41	54.00	36.59
2330.56	54.09	-30.34	23.75	54.00	30.25
2565.76	48.39	-30.34	18.05	54.00	35.95
4805.50	63.11	-30.34	32.77	54.00	21.23
7208.00	70.42	-30.34	40.08	54.00	13.92
* 9621.00	63.33	-30.34	32.99	63.50	30.51

Remarks: 1. PDCF=20log(dwell time/100ms)=20log(3.041ms/100ms)=-30.34
2. Average value=Peak value+PDCF
3. All final readings of measurement were with Average values.
4. *: Measured at 1m and limit is transformed to 63.5 by adding a factor 9.5 which is calculated from 20log(3/1).

Date of Test： Apr. 12, 2011 Temperature： 23℃

EUT： Radio Control Humidity： 52%

Test Mode： Transmitting Mode, Frequency: 2425MHz, Position: Stand

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading Horizontal (dBμV)	Emission Level Horizontal (dBμV/m)	Limits (dBμV/m)	Margin (dB)
	2355.760	28.06	6.29	16.84	51.19	74.00	22.81
	2367.520	28.06	6.31	14.23	48.61	74.00	25.39
	2518.720	28.26	6.49	12.30	47.05	74.00	26.95
	2574.160	28.52	6.59	13.56	48.66	74.00	25.34
	4846.000	32.99	9.15	15.08	57.23	74.00	16.77
	7274.000	35.96	11.32	17.81	65.09	74.00	8.91
*	9699.750	37.82	13.00	14.34	65.17	83.50	18.33

Remarks: 1. Emission level=Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. All final readings of measurement were with Peak values.
4. *: Measured at 1m and limit is transformed to 83.5 by adding a factor 9.5 which is calculated from 20log(3/1).

Emission Frequency (MHz)	Peak Value (dB/m)	PDCF (dB)	Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2355.76	51.19	-30.34	20.85	54.00	33.15
2367.52	48.61	-30.34	18.27	54.00	35.73
2518.72	47.05	-30.34	16.71	54.00	37.29
2574.16	48.66	-30.34	18.32	54.00	35.68
4846.00	57.23	-30.34	26.89	54.00	27.11
7274.00	65.09	-30.34	34.75	54.00	19.25
* 9699.75	65.17	-30.34	34.83	63.50	28.67

Remarks: 1. PDCF=20log(dwell time/100ms)=20log(3.041ms/100ms)=-30.34
2. Average value=Peak value+PDCF
3. All final readings of measurement were with Average values.
4. *: Measured at 1m and limit is transformed to 63.5 by adding a factor 9.5 which is calculated from 20log(3/1).

Date of Test： Apr. 12, 2011 Temperature： 23℃

EUT： Radio Control Humidity： 52%

Test Mode： Transmitting Mode, Frequency: 2425MHz, Position: Stand

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading Vertical (dBμV)	Emission Level Vertical (dBμV/m)	Limits (dBμV/m)	Margin (dB)
	2350.720	28.04	6.29	21.69	56.03	74.00	17.98
	2367.520	28.06	6.31	24.64	59.02	74.00	14.98
	2535.520	28.33	6.53	21.21	56.07	74.00	17.93
	2574.160	28.52	6.59	16.60	51.70	74.00	22.30
	4846.000	32.99	9.15	22.57	64.72	74.00	9.28
	7274.000	35.96	11.32	24.66	71.94	74.00	2.06
*	9699.750	37.82	13.00	11.94	62.77	83.50	20.73

Remarks: 1. Emission level=Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. All final readings of measurement were with Peak values.
4. *: Measured at 1m and limit is transformed to 83.5 by adding a factor 9.5 which is calculated from 20log(3/1).

Emission Frequency (MHz)	Peak Value (dB/m)	PDCF (dB)	Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2350.72	56.03	-30.34	25.69	54.00	28.31
2367.52	59.02	-30.34	28.68	54.00	25.32
2535.52	56.07	-30.34	25.73	54.00	28.27
2574.16	51.70	-30.34	21.36	54.00	32.64
4846.00	64.72	-30.34	34.38	54.00	19.62
7274.00	71.94	-30.34	41.60	54.00	12.40
* 9699.75	62.77	-30.34	32.43	63.50	31.07

Remarks: 1. PDCF=20log(dwell time/100ms)=20log(3.041ms/100ms)=-30.34
2. Average value=Peak value+PDCF
3. All final readings of measurement were with Average values.
4. *: Measured at 1m and limit is transformed to 63.5 by adding a factor 9.5 which is calculated from 20log(3/1).

Date of Test： Apr. 12, 2011 Temperature： 23℃

EUT： Radio Control Humidity： 52%

Test Mode： Transmitting Mode, Frequency: 2447.5MHz, Position: Stand

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading Horizontal (dBμV)	Emission Level Horizontal (dBμV/m)	Limits (dBμV/m)	Margin (dB)
	2291.920	27.99	6.22	14.57	48.79	74.00	25.21
	2355.760	28.04	6.29	12.30	46.64	74.00	27.36
	2367.520	28.06	6.31	14.60	48.98	74.00	25.02
	2523.760	28.33	6.50	15.57	50.39	74.00	23.61
	2548.960	28.39	6.54	14.40	49.34	74.00	24.66
	4891.000	33.09	9.16	15.03	57.29	74.00	16.71
	7338.000	36.13	11.44	18.54	66.11	74.00	7.89
*	9794.250	37.88	12.93	13.29	64.09	74.00	9.91

Remarks: 1. Emission level=Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. All final readings of measurement were with Peak values.
4. *: Measured at 1m and limit is transformed to 83.5 by adding a factor 9.5 which is calculated from 20log(3/1).

Emission Frequency (MHz)	Peak Value (dB/m)	PDCF (dB)	Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2291.92	48.79	-30.34	18.45	54.00	35.55
2355.76	46.64	-30.34	16.30	54.00	37.70
2367.52	48.98	-30.34	18.64	54.00	35.36
2523.76	50.39	-30.34	20.05	54.00	33.95
2548.96	49.34	-30.34	19.00	54.00	35.00
4891.00	57.29	-30.34	26.95	54.00	27.05
7338.00	66.11	-30.34	35.77	54.00	18.23
* 9794.25	64.09	-30.34	33.75	63.50	29.75

Remarks: 1. PDCF=20log(dwell time/100ms)=20log(3.041ms/100ms)=-30.34
2. Average value=Peak value+PDCF
3. All final readings of measurement were with Average values.
4. *: Measured at 1m and limit is transformed to 63.5 by adding a factor 9.5 which is calculated from 20log(3/1).

Date of Test： Apr. 12, 2011 Temperature： 23℃

EUT： Radio Control Humidity： 52%

Test Mode： Transmitting Mode, Frequency: 2447.5MHz, Position: Stand

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading Vertical (dBμV)	Emission Level Vertical (dBμV/m)	Limits (dBμV/m)	Margin (dB)
	2291.920	27.99	6.22	17.61	51.82	74.00	22.18
	2355.760	28.06	6.29	21.45	55.80	74.00	18.20
	2523.760	28.33	6.50	20.37	55.19	74.00	18.81
	2548.960	28.39	6.54	20.82	55.76	74.00	18.24
	4891.000	33.09	9.16	23.57	65.83	74.00	8.17
	7338.000	36.13	11.44	23.65	71.22	74.00	2.78
*	9794.250	37.88	12.93	12.11	62.91	83.50	20.59

Remarks: 1. Emission level=Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. All final readings of measurement were with Peak values.
4. *: Measured at 1m and limit is transformed to 83.5 by adding a factor 9.5 which is calculated from 20log(3/1).

Emission Frequency (MHz)	Peak Value (dB/m)	PDCF (dB)	Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2291.92	51.82	-30.34	21.48	54.00	32.52
2355.76	55.80	-30.34	25.46	54.00	28.54
2523.76	55.19	-30.34	24.85	54.00	29.15
2548.96	55.76	-30.34	25.42	54.00	28.58
4891.00	65.83	-30.34	35.49	54.00	18.51
7338.00	71.22	-30.34	40.88	54.00	13.12
* 9794.25	62.91	-30.34	32.57	63.50	30.93

Remarks: 1. PDCF=20log(dwell time/100ms)=20log(3.041ms/100ms)=-30.34
2. Average value=Peak value+PDCF
3. All final readings of measurement were with Average values.
4. *: Measured at 1m and limit is transformed to 63.5 by adding a factor 9.5 which is calculated from 20log(3/1).

4.6.3. Restricted Bands Measurement Results

Date of Test： Apr. 12, 2011 Temperature： 23℃

EUT： Radio Control Humidity： 52%

Test Mode： Transmit, Channel: 01, Frequency: 2404.000MHz

	Emission Frequency	Antenna Factor	Cable Loss	Meter Reading Horizontal	Emission Level Horizontal	Limits	Margin
	(MHz)	(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)
Peak *	2389.090	28.10	6.34	35.06	69.49	74.00	4.51

	Emission Frequency	Peak Value	PDCF	Average Value	Limit	Margin
	(MHz)	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Average *	2389.09	69.49	-30.34	39.15	54.00	14.85

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2420MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.
4. All final readings of measurement were with Peak values.
5. All final readings of measurement were with Average values.
6. PDCF=20log(dwell time/100ms)=20log(3.041ms/100ms)=-30.34

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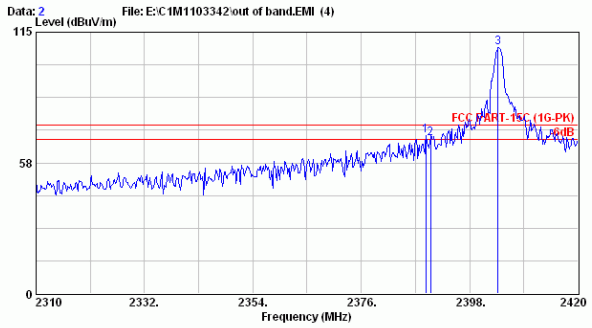

Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 23°C /52%
EUT : T3PRKA-24G
Power Rating : DC 6V
Test Mode : TX2404

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.090	28.10	6.34	35.06	69.49	74.00	4.51	Peak
2	2390.080	28.10	6.34	33.64	68.08	74.00	5.92	Peak
3	2403.720	28.11	6.36	73.68	108.15	74.00	-34.15	Peak

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

Date of Test： Apr. 12, 2011 Temperature： 23℃

EUT： Radio Control Humidity： 52%

Test Mode： Transmit, Channel: 01, Frequency: 2404.000MHz

	Emission Frequency	Antenna Factor	Cable Loss	Meter Reading Vertical	Emission Level Vertical	Limits	Margin
	(MHz)	(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)
Peak *	2389.640	28.10	6.34	37.85	72.29	74.00	1.71

	Emission Frequency	Peak Value	PDCF	Average Value	Limit	Margin
	(MHz)	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Average *	2389.64	72.29	-30.34	41.95	54.00	12.05

R Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2420MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.
4. All final readings of measurement were with Peak values.
5. All final readings of measurement were with Average values.
6. PDCF=20log(dwell time/100ms)=20log(3.041ms/100ms)=-30.34

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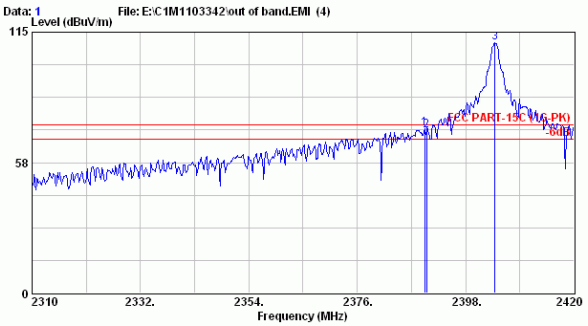


Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 23°C /52%
EUT : T3PRKA-24G
Power Rating : DC 6V
Test Mode : TX2404

Data no. : 1
Ant. pol. : VERTICAL

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.640	28.10	6.34	37.85	72.29	74.00	1.71	Peak
2	2390.080	28.10	6.34	37.09	71.53	74.00	2.47	Peak
3	2403.940	28.11	6.36	75.72	110.19	74.00	-36.19	Peak

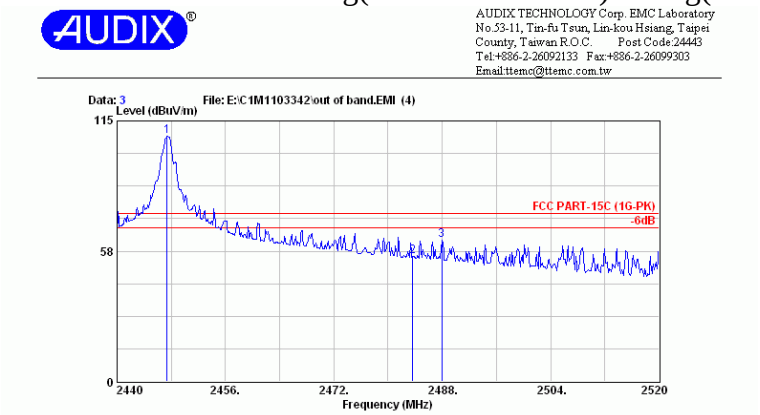
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Apr. 12, 2011	Temperature：	23℃
EUT：	Radio Control	Humidity：	52%
Test Mode：	Transmit, Channel: 30, Frequency: 2447.500MHz		

	Emission Frequency	Antenna Factor	Cable Loss	Meter Reading Horizontal	Emission Level Horizontal	Limits	Margin
	(MHz)	(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)
Peak *	2487.920	28.20	6.45	27.86	62.51	74.00	11.49

	Emission Frequency	Peak Value	PDCF	Average Value	Limit	Margin
	(MHz)	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Average *	2487.92	62.51	-30.34	32.17	54.00	21.83

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2440-2520MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.
4. All final readings of measurement were with Peak values.
5. All final readings of measurement were with Average values.
6. PDCF=20log(dwell time/100ms)=20log(3.041ms/100ms)=-30.34



Date of Test： Apr. 12, 2011 Temperature： 23℃

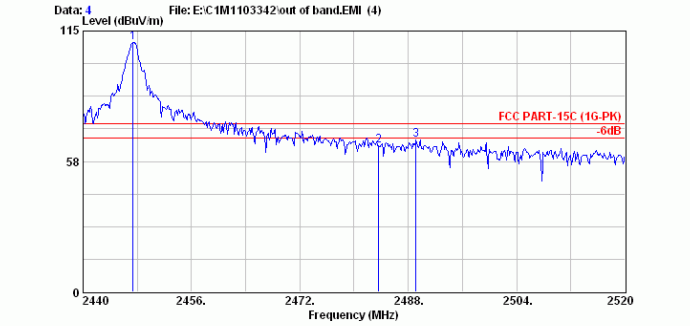
EUT： Radio Control Humidity： 52%

Test Mode： Transmit, Channel: 30, Frequency: 2447.500MHz

	Emission Frequency	Antenna Factor	Cable Loss	Meter Reading Vertical	Emission Level Vertical	Limits	Margin
	(MHz)	(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)
Peak *	2489.120	28.20	6.45	32.30	66.95	74.00	7.05

	Emission Frequency	Peak Value	PDCF	Average Value	Limit	Margin
	(MHz)	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Average *	2489.12	66.95	-30.34	36.61	54.00	17.39

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2440-2520MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.
4. All final readings of measurement were with Peak values.
5. All final readings of measurement were with Average values.
6. PDCF=20log(dwell time/100ms)=20log(3.041ms/100ms)=-30.34



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 23°C /52%
EUT : T3PRKA-24G
Power Rating : DC 6V
Test Mode : TX2447.5

Data no. : 4
Ant. pol. : VERTICAL

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2447.360	28.15	6.41	75.56	110.12	74.00	-36.12	Peak
2	2483.600	28.18	6.45	29.61	64.24	74.00	9.76	Peak
3	2489.120	28.20	6.45	32.30	66.95	74.00	7.05	Peak

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

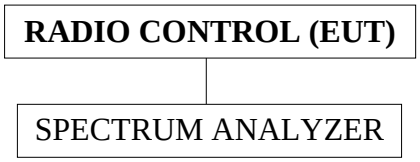
5. TIME OF OCCUPANCY MEASUREMENT

5.1. Test Equipment

The following test equipment was used during the time of occupancy measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A-526	MY48031076	Oct. 05, 10’	Oct. 04, 11’

5.2. Block Diagram of Test Setup



5.3. Specification Limits (§15.247(a)(1)(iii))

Frequency hopping systems in the 2400-2483.5MHz shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by number of hopping channels employed.

5.4. Operating Condition of EUT

5.4.1. Set up the EUT and simulator as shown on 5.2.

5.4.2. To turn on the power of all equipment.

5.4.3. EUT (Radio Control) was on transmitting frequency function during the testing.

5.5. Test Procedure (DA 00-705)

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 1MHz RBW and 1MHz VBW. VBW≥RBW ; Span=zero span.
Centered on a hopping channel sweep=as necessary to capture the entire dwell time per hopping channel ; Detector function=peak ; Trace=Max hold

5.6. Test Results

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

Test Date : Apr. 01, 2011 Temperature :24℃ Humidity : 59%

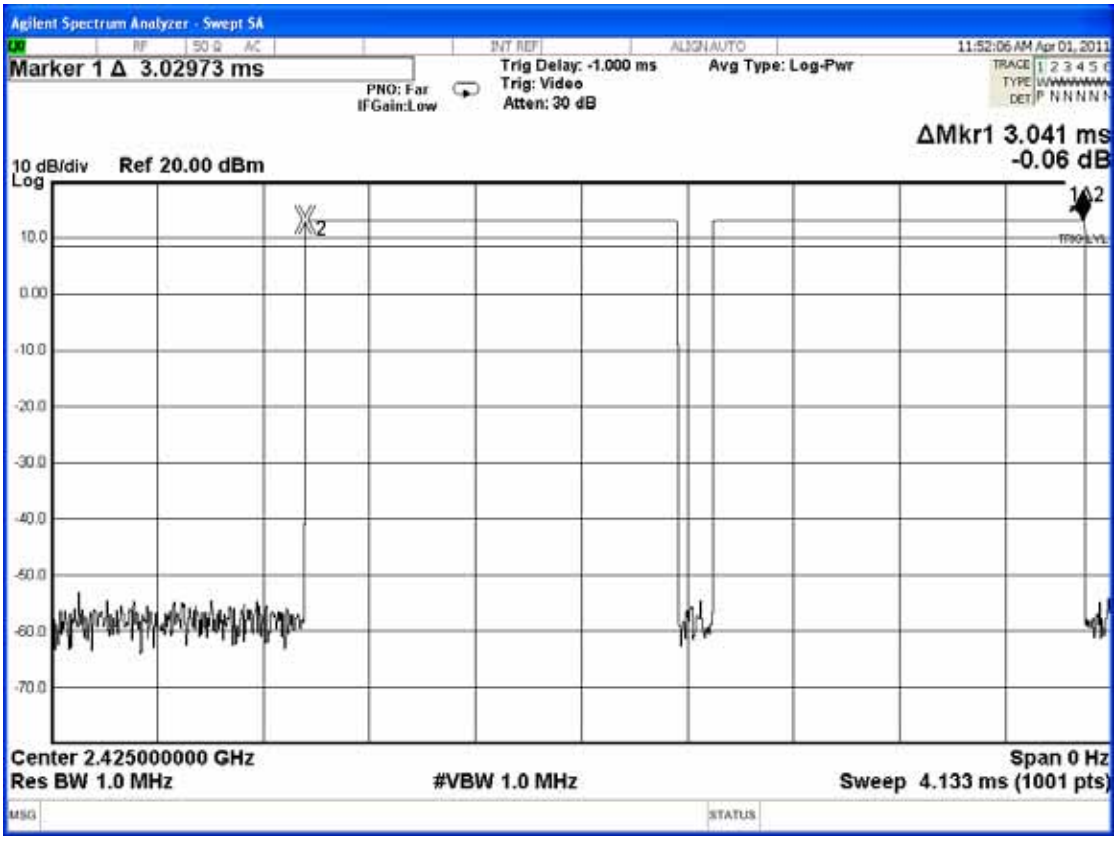
Duty cycle: 30 channels*0.4 seconds = 12 seconds

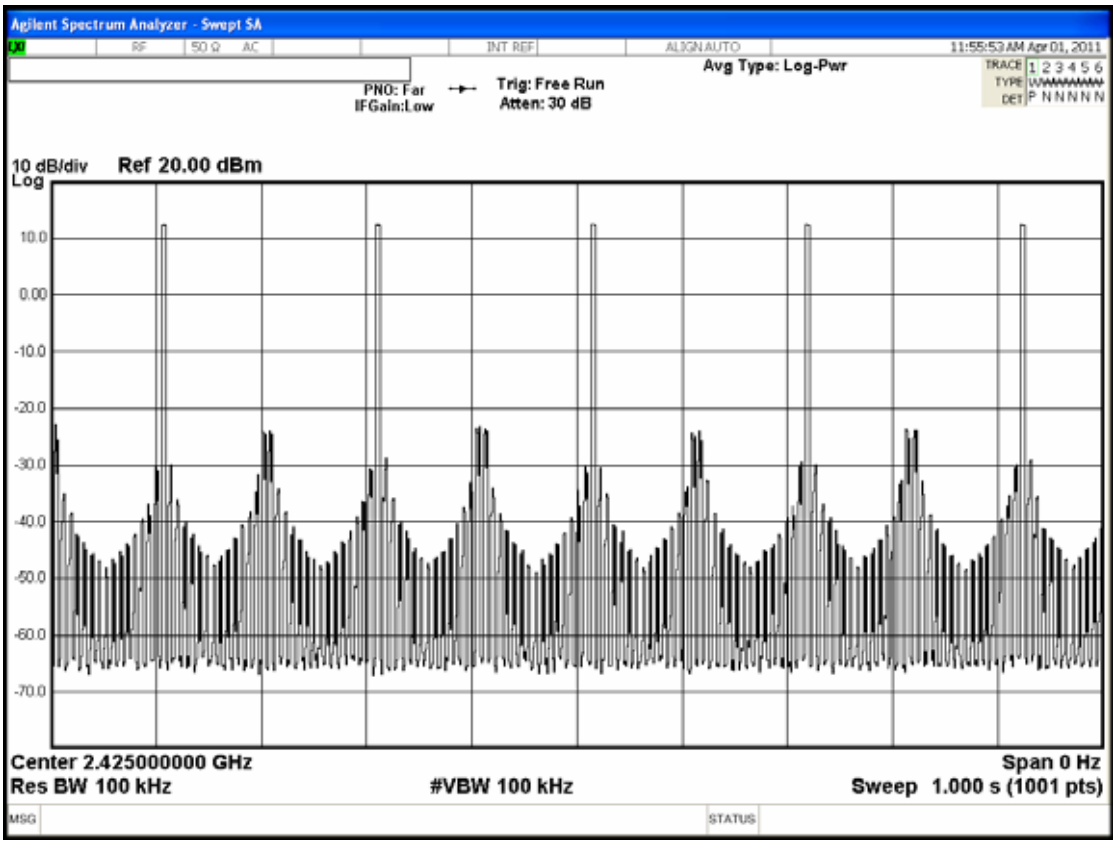
Test Frequency: 2425.000MHz

For per second of 5 channels appearance, the longest time of occupancy for each of 12 seconds is:

5 channels*12 seconds* 3.041ms = 182.28ms (<400ms)

5.6.1. Channel 30, Test Frequency: 2425.000MHz





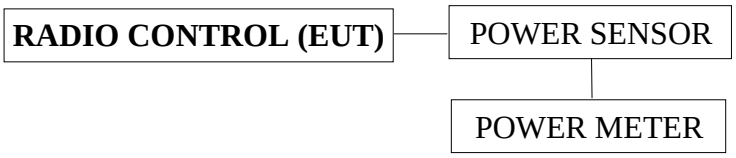
6. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

6.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2487A	6K00005406	Feb. 11, 11’	Feb. 10, 12’
2.	Power Sensor	Anritsu	MA2491A	030873	Feb. 11, 11’	Feb. 10, 12’

6.2. Block Diagram of Test Setup



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

The Limits of maximum Peak Output Power for frequency hopping systems in 2400-2483.5MHz is: 0.125Watt. (21dBm)

6.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in 5.4 except the test set up replaced by section 6.2.

6.5. Test Procedure (DA 00-705)

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

6.6. Test Results

PASSED. All the test results are listed below.

Test Date : Apr. 01, 2011 Temperature :24℃ Humidity : 59%

No.	Channel	Test Frequency	**Peak Output Power**	Limit
1.	01	2404.000MHz	**13.68dBm**	21dBm
2.	12	2425.000MHz	**13.12dBm**	21dBm
3.	30	2447.500MHz	**12.65dBm**	21dBm

7. DEVIATION TO TEST SPECIFICATIONS

【NONE】

8. PHOTOGRAPHS

8.1. Photos of Radiated Measurement at Semi-Anechoic Chamber

8.1.1.Frequency Range 30MHz~1GHz, Stand

8.1.2.Frequency Range 30MHz~1GHz, Side

8.1.3.Frequency Range 30MHz~1GHz, Lie

8.1.4.Frequency Range Above 1GHz, Stand

8.1.5.Frequency Range Above 1GHz, Side

8.1.6.Frequency Range Above 1GHz, Lie

8.2. Photo of RF Conducted Measurement