



卓時檢測  
TIMEWAY TESTING LABORATORY



ISO/IEC17025Accredited Lab.

Report No:

FCC 1007246

File reference No:

2010-08-25

Applicant: Guangzhou Chiyuan Electronic Co.,Ltd.

Product: 3CH Radio Control

Model No: CY300

Trademark: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

Test result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: August 25,2010

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD**

5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.

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## **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

### **CNAL-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

### **FCC-Registration No.: 899988**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

### **IC- Registration No.: IC5205A-01**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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Test Report Conclusion

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD  
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m & 10 m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-01  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: Guangzhou Chiyuan Electronic Co., Ltd  
Address: 2/F, No.1Bled., Boyi Industrial Garden, 4<sup>th</sup> Gongye RD. Zhicun Dashi Street, Panyu Dis., Guangzhou, China  
Telephone: +86-20-34796226/34797226  
Fax: +86-20-34796116

### 1.3 Description of EUT

Product:	3CH Radio Control
Manufacturer:	Guangzhou Chiyuan Electronic Co., Ltd
Brand Name:	N/A
Model Number:	CY300
Additional Model Name	8186
Additional Trade Name	N/A
Rating:	DC9.6V (8 pcs AAA Batteries)
Power Supply:	N/A
Type of Modulation	GFSK
Frequency range	2403-2477MHz
Number of Channel	75
Air Data Rate	250kbps
Antenna type	Dipole antenna

### 1.4 Submitted Sample: 1 Sample

### 1.5 Test Duration

2010-07-20 to 2010-08-25

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer & verify Engineer

Test Engineer

*Brown Lu*

The sample(s) tested by

Print Name: Brown Lu/ Engineer

Verify Engineer

*Terry Tang*

The report verified by

Print Name: Terry Tang/ EMC Manager

2.0 Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2009-12-05	2010-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2009-12-05	2010-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2009-12-05	2010-12-04
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2009-12-05	2010-12-04
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2010-03-29	2011-03-28
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2010-02-17	2011-02-16
System Controller	CT	SC100	-	2010-02-17	2011-02-16
Field probe	Holiday	HI-6005	105152	2010-02-17	2011-02-16
Bilog Antenna	Chase	CBL6111C	2576	2010-02-17	2011-02-16
Loop Antenna	EMCO	6502	00042960	2010-02-17	2011-02-16
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2010-02-17	2011-02-16
3m OATS	--	--	N/A	2010-02-17	2011-02-16
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2010-08-14	2011-08-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2010-07-03	2011-07-02
Power meter	Anritsu	ML2487A	6K00003613	2010-02-17	2011-02-16
Power sensor	Anritsu	MA2491A	32263	2010-02-17	2011-02-16
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2010-05-14	2011-05-13

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LISN	AFJ	LST16C	10010947251	2010-5-14	2011-05-13
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2010-5-14	2011-05-13
9*6*6 Anechoic	--	--	N/A	2010-5-14	2011-05-13

### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
<b>FCC Part 15, Paragraph 15.107 &amp; 15.207</b>	<b>Conducted Emission Test</b>	<b>PASS</b>	<b>N/A</b>
<b>FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit</b>	<b>Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth&gt;500kHz</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(b)</b>	<b>Maximum peak output power Limit: max. 30dBm</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.109,15.205 &amp; 15.209</b>	<b>Transmitter Radiated Emission Limit: Table 15.209</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(d)</b>	<b>Power Spectral Density Limit: max. 8dBm</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(c)</b>	<b>Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209</b>	<b>PASS</b>	<b>Complies</b>

#### 3.2 Test Standards

**FCC Part 15 Subpart & Subpart C, Paragraph 15.247**

#### 4.0 EUT Modification

**No modification by Shenzhen Timeway Technology Consulting Co.,Ltd**

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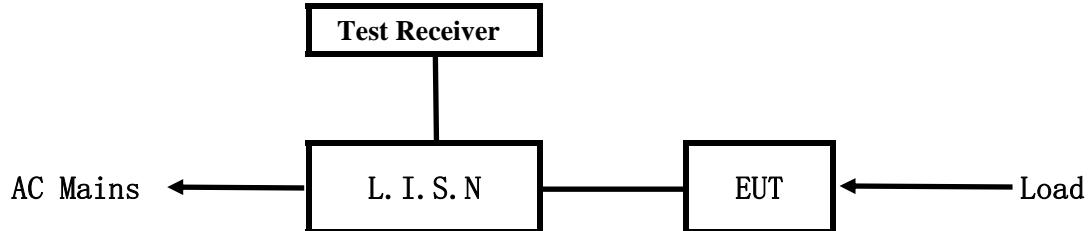
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## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test

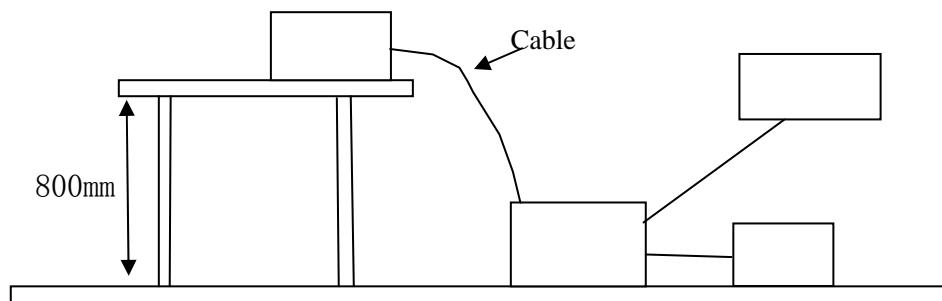


EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

#### A. EUT

Device	Manufacturer	Model	FCC ID
3CH Radio Control	Guangzhou Chiyuan Electronic Co., Ltd	CY340	V6KCY300

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

#### C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

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#### 5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

#### 5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Class A Limits (dB $\mu$ V)		Class B Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

#### 5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

**Note: Owing to DC operation of EUT, this test item is not performed**

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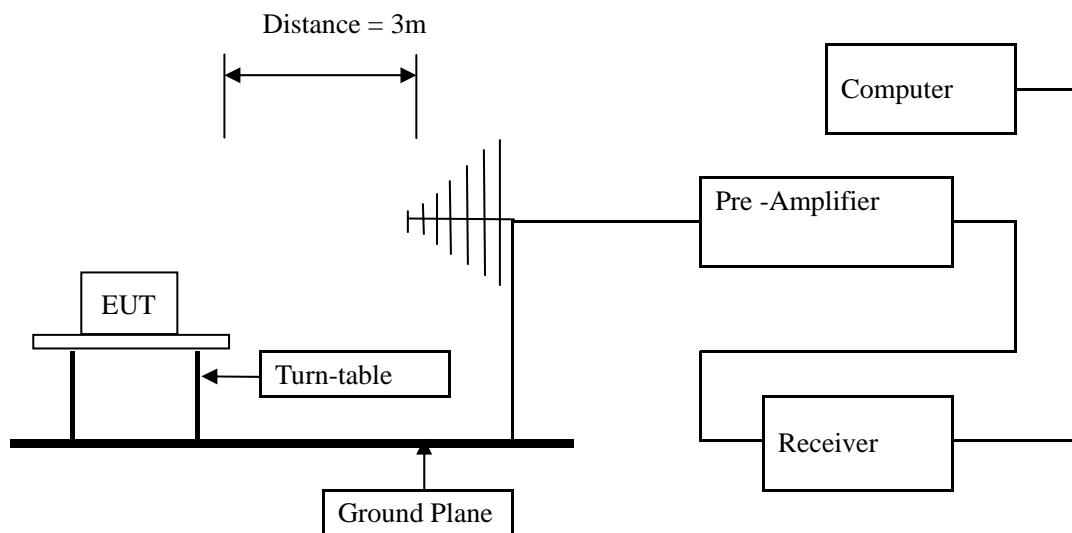


## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 -2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna height is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

### Block diagram of Test setup



### 6.2 Configuration of The EUT

Same as section 5.3 of this report

### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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#### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

##### **Frequencies in restricted band are complied to limit on Paragraph 15.209 and RSS-210**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	300	2400/F(KHz)
0.490-1.705	30	24000/F(KHz)
1.705-30	30	30
30-88	3	100
88-216	3	150
216-960	3	200
Above 960	3	500

Note: 1. RF Voltage (dBuV) =  $20 \log_{10}$  RF Voltage (uV)  
2. In the Above Table, the higher limit applies at the band edges.  
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

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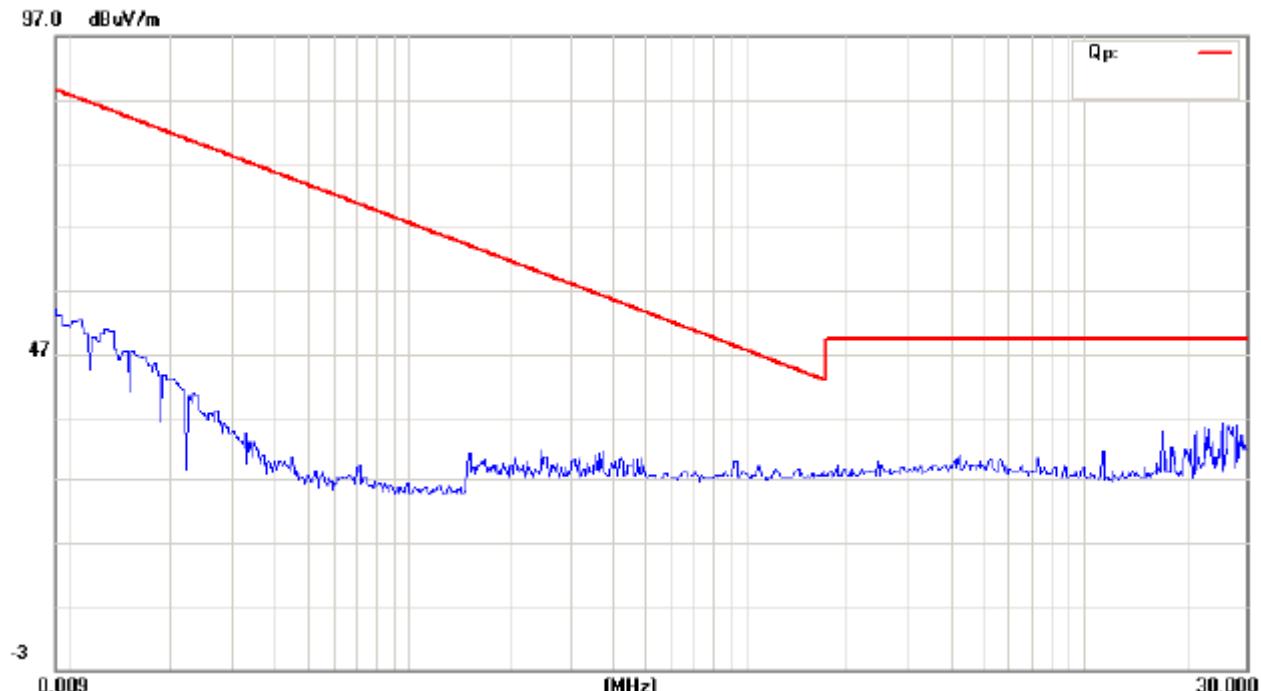
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### Radiated Emissions Below 30MHz

#### Low Channel :



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**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Tx under transmitting mode

**Results:** **Pass**

Model: Low Channel

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
127.981	35.27	V	43.50
143.982	32.38	V	43.50
175.990	39.22	V	43.50
191.990	31.57	V	43.50
352.029	39.18	V	46.00
392.006	40.22	V	46.00
175.997	39.12	H	43.50
127.995	37.45	H	43.50
143.996	37.01	H	43.50
191.988	38.21	H	43.50
351.997	41.43	H	46.00
208.004	35.76	H	43.50

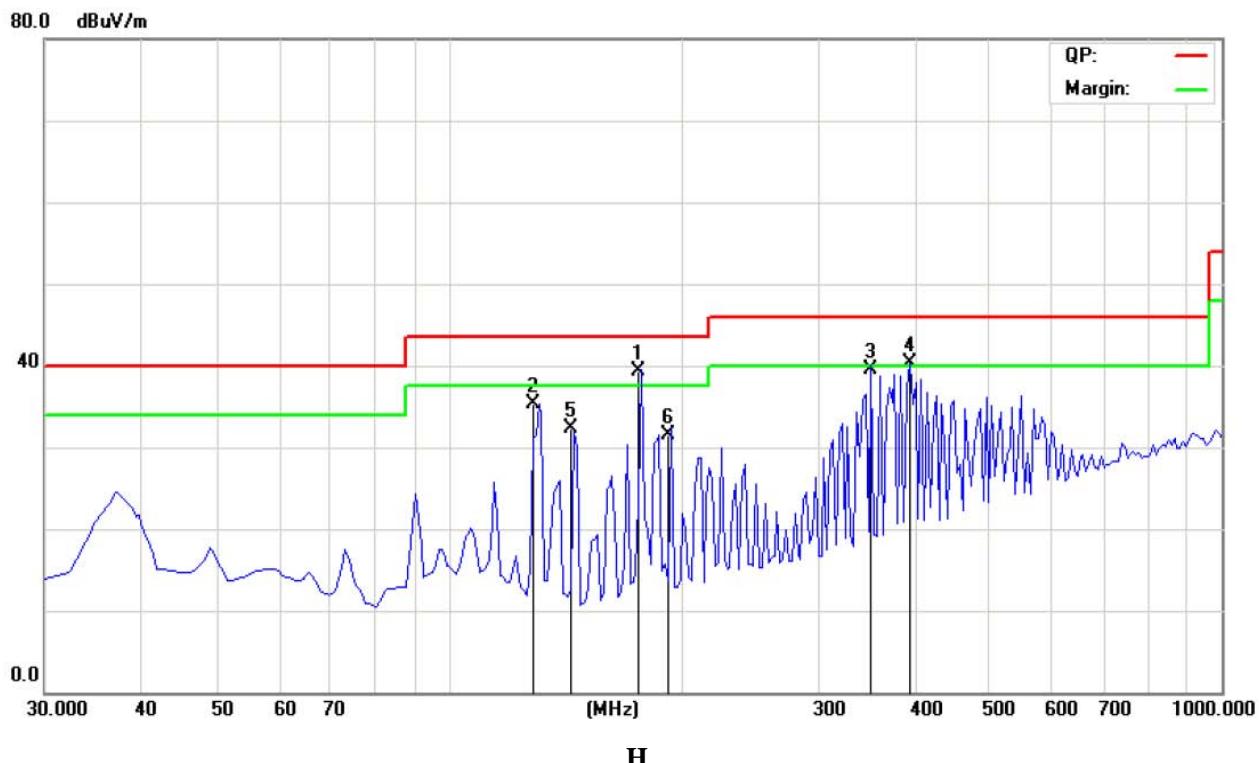
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**Test Figure: transmitting mode**



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**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Tx under transmitting mode

**Results:** **Pass**

Model: **Middle Channel**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
175.991	40.27	H	43.50
159.990	38.16	H	43.50
127.991	37.97	H	43.50
191.989	38.51	H	43.50
344.000	42.89	H	46.00
143.989	35.38	H	43.50
159.992	36.56	V	43.50
175.989	40.05	V	43.50
352.016	39.99	V	46.00
392.134	39.04	V	46.00

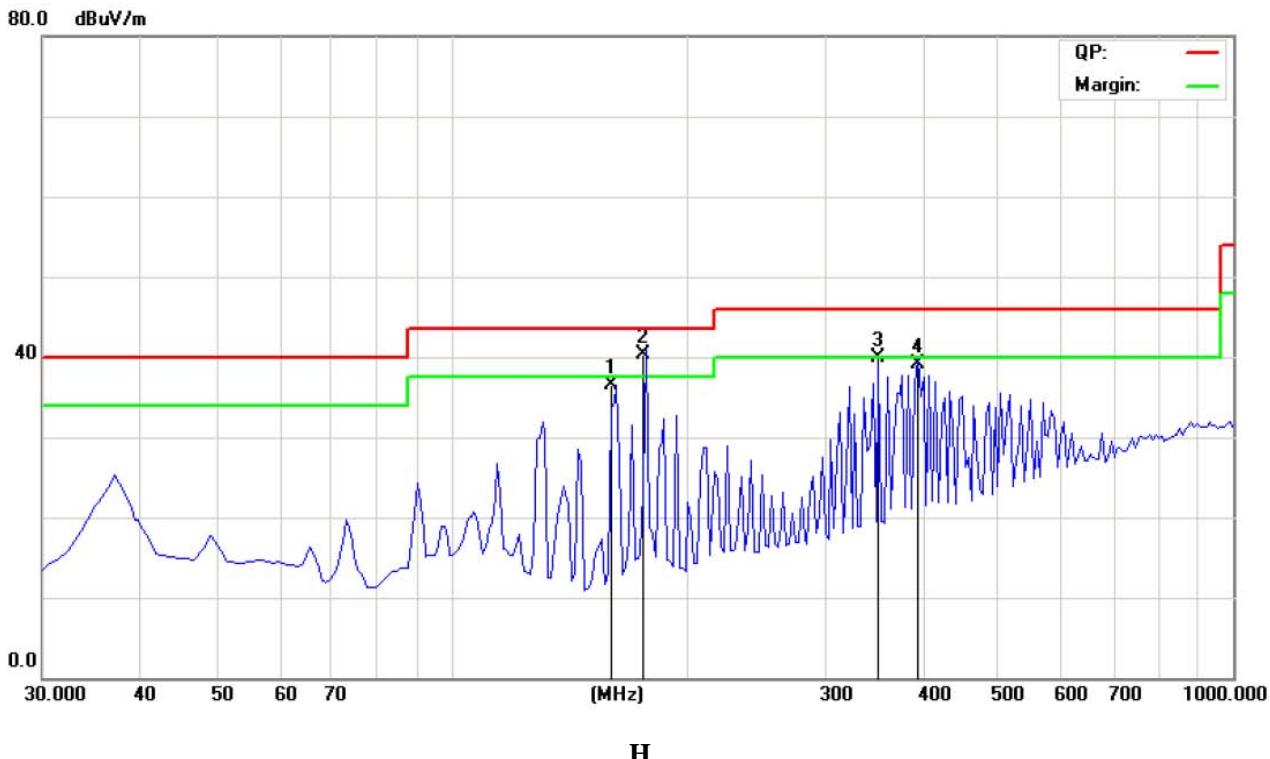
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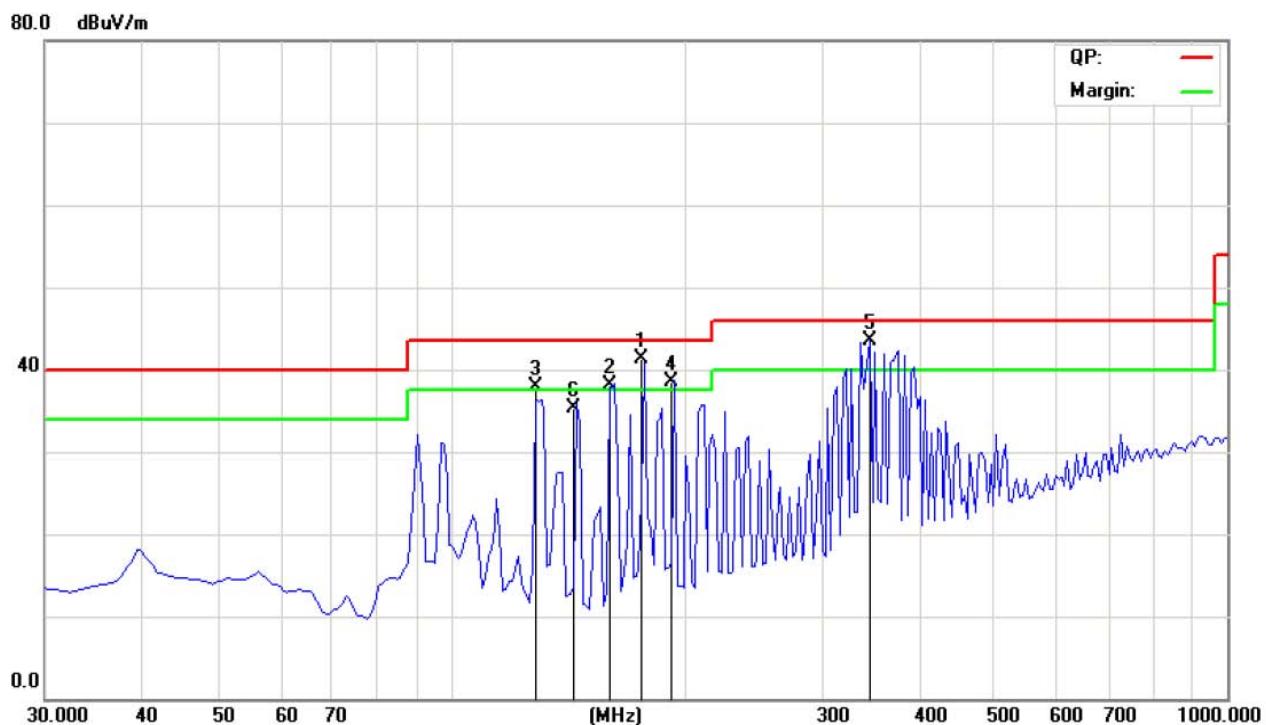
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**Test Figure: transmitting mode**



**H**



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**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Tx under transmitting mode

**Results:** **Pass**

Model: High Channel

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
127.983	32.06	V	43.50
176.000	40.56	V	43.50
352.023	39.95	V	46.00
391.997	40.19	V	46.00
88.207	39.34	H	43.50
127.985	38.48	H	43.50
143.991	39.16	H	43.50
175.992	40.98	H	43.50
191.995	39.58	H	43.50
351.994	42.79	H	46.00

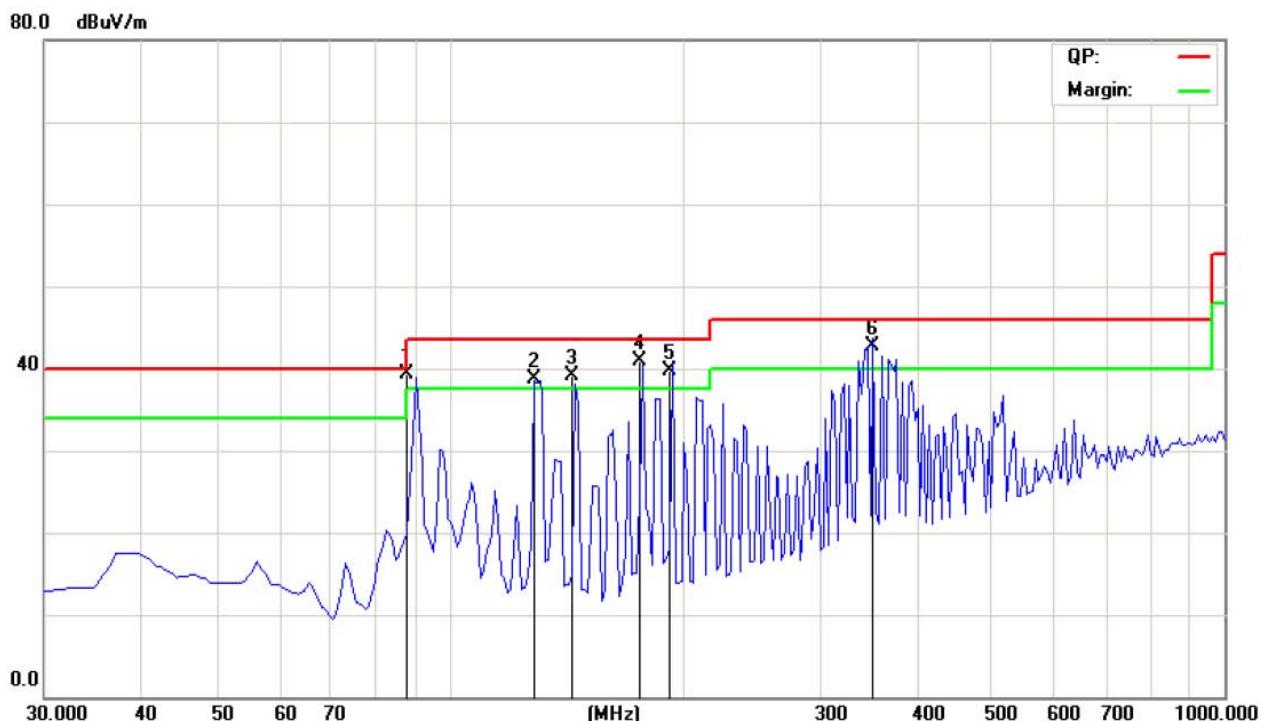
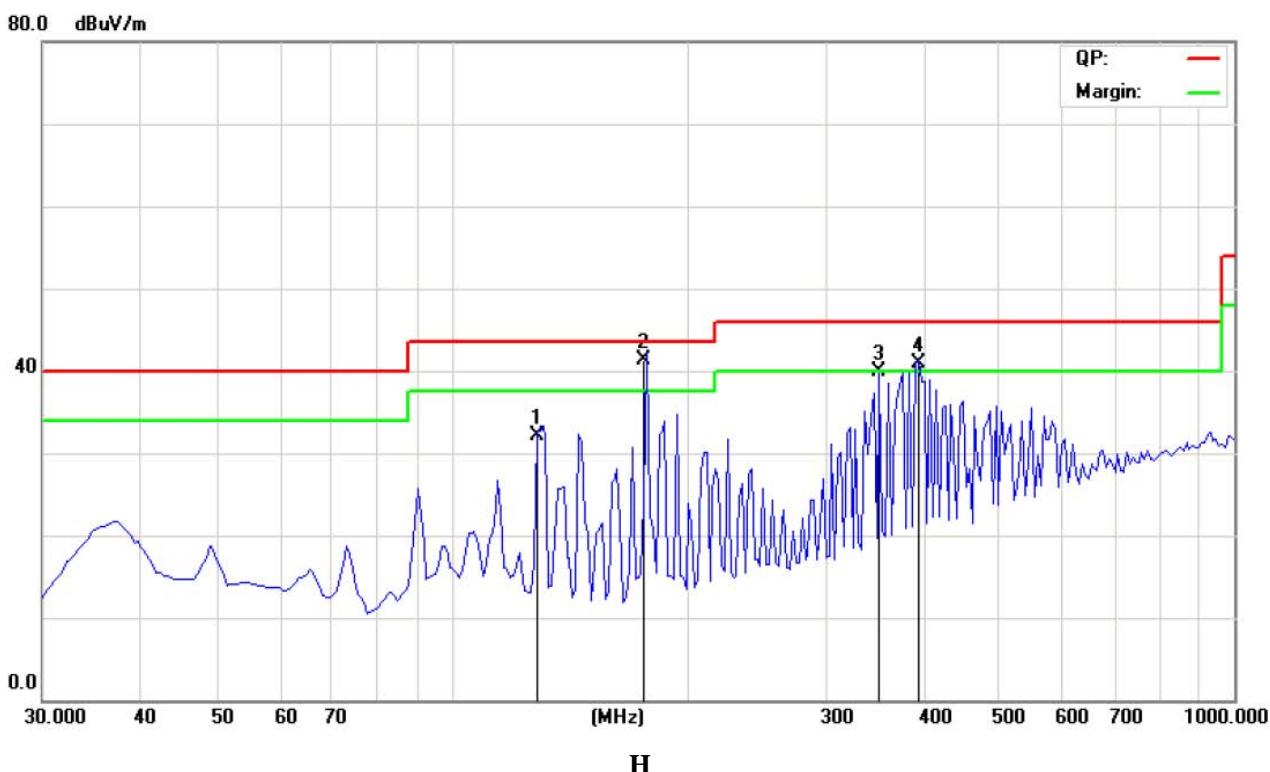
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## Test Figure: transmitting mode



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**Operation Mode: Transmitting under Low Channel**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2403	107.5 (PK) /94.2 (AV)	H	Fundamental Frequency
2403	111.2 (PK) /98.4 (AV)	V	
4806	52.9 (PK) /39.6 (AV)	H	74(Peak)/ 54(AV)
4806	55.8 (PK) /43.7 (AV)	V	74(Peak)/ 54(AV)
7209	53.2 (PK) /40.2 (AV)	H	74(Peak)/ 54(AV)
7209	53.7 (PK) /42.9 (AV)	V	74(Peak)/ 54(AV)
9612	--	H/V	74(Peak)/ 54(AV)
12015	--	H/V	74(Peak)/ 54(AV)
14418	--	H/V	74(Peak)/ 54(AV)
16821	--	H/V	74(Peak)/ 54(AV)
19224	--	H/V	74(Peak)/ 54(AV)
21627	--	H/V	74(Peak)/ 54(AV)
24030	--	H/V	74(Peak)/ 54(AV)

**Operation Mode: Transmitting under CH Mid**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2440	105.7 (PK) /92.4 (AV)	H	Fundamental Frequency
2440	110.3 (PK) /95.7 (AV)	V	
4880	54.2(PK)/41.6 (AV)	H	74(Peak)/ 54(AV)
4880	56.6(PK) /44.5 (AV))	V	74(Peak)/ 54(AV)
7320	54.7(PK) /41.2 (AV)	H	74(Peak)/ 54(AV)
7320	55.1(PK) /42.4 (AV)	V	74(Peak)/ 54(AV)
9760	--	H/V	74(Peak)/ 54(AV)
12200	--	H/V	74(Peak)/ 54(AV)
14640	--	H/V	74(Peak)/ 54(AV)
17080	--	H/V	74(Peak)/ 54(AV)
19520	--	H/V	74(Peak)/ 54(AV)
21960	--	H/V	74(Peak)/ 54(AV)
24400	--	H/V	74(Peak)/ 54(AV)

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**Operation Mode: Transmitting under CH High**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2477	105.6 (PK) /90.2 (AV)	H	Fundamental Frequency
2477	109.7 (PK) /93.4 (AV)	V	
4854	56.7(PK) /43.5(AV)	H	74(Peak)/ 54(AV)
4854	57.2 (PK) /44.6 (AV)	V	74(Peak)/ 54(AV)
7431	54.3(PK) /42.1(PK)	H	74(Peak)/ 54(AV)
7431	55.6(PK) /43.2 (AV)	V	74(Peak)/ 54(AV)
9908	--	H/V	74(Peak)/ 54(AV)
12385	--	H/V	74(Peak)/ 54(AV)
14862	--	H/V	74(Peak)/ 54(AV)
17339	--	H/V	74(Peak)/ 54(AV)
19816	--	H/V	74(Peak)/ 54(AV)
22293	--	H/V	74(Peak)/ 54(AV)
24770	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark “---” means that the emissions level is too low to be measured  
3. Margin=Emission-Limits  
4. According to section 15.35(b), the peak limit is 20dB higher than the average limit

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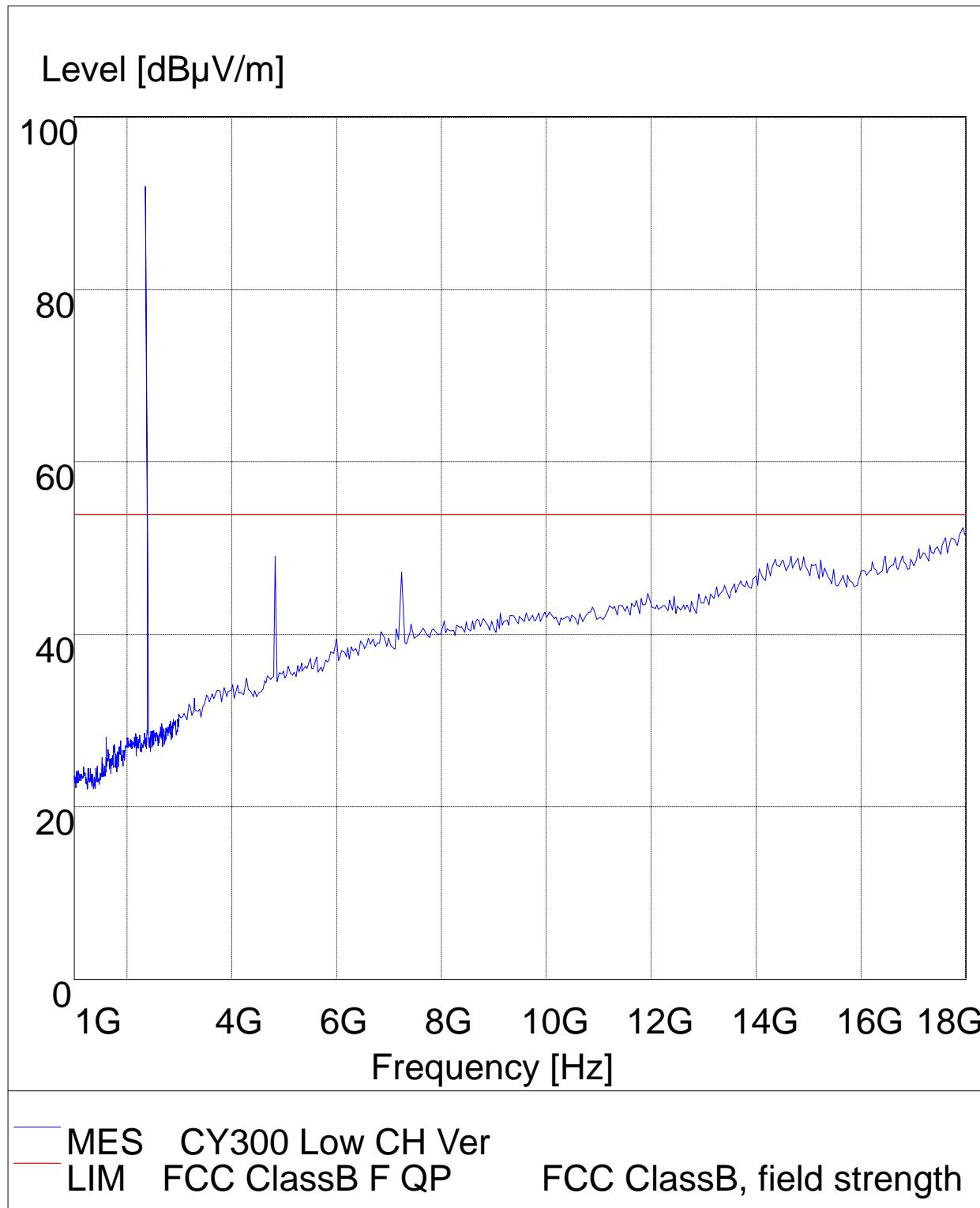
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Please refer to the following test plots for details.

**Low Channel: Vertical**



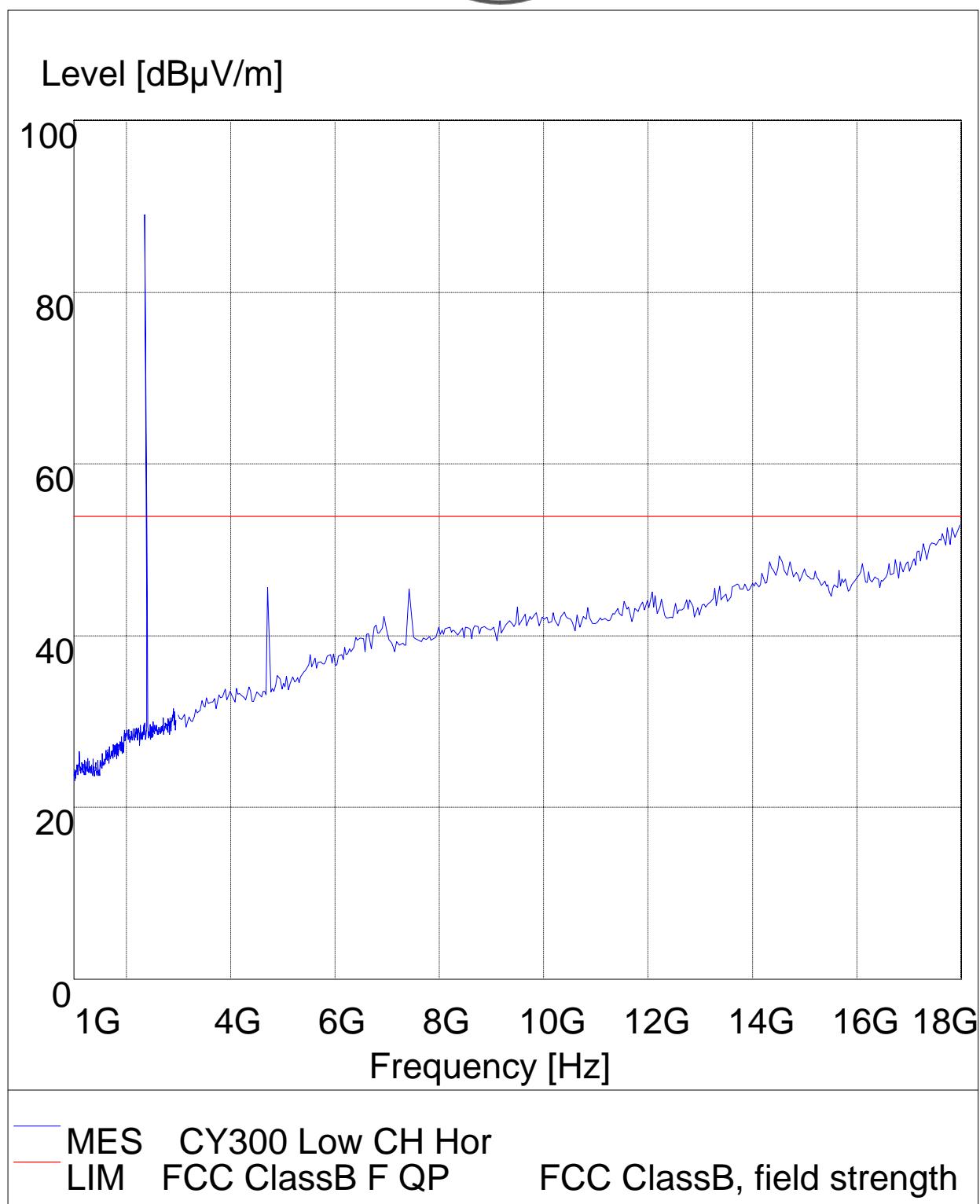
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Low Channel : Horizontal



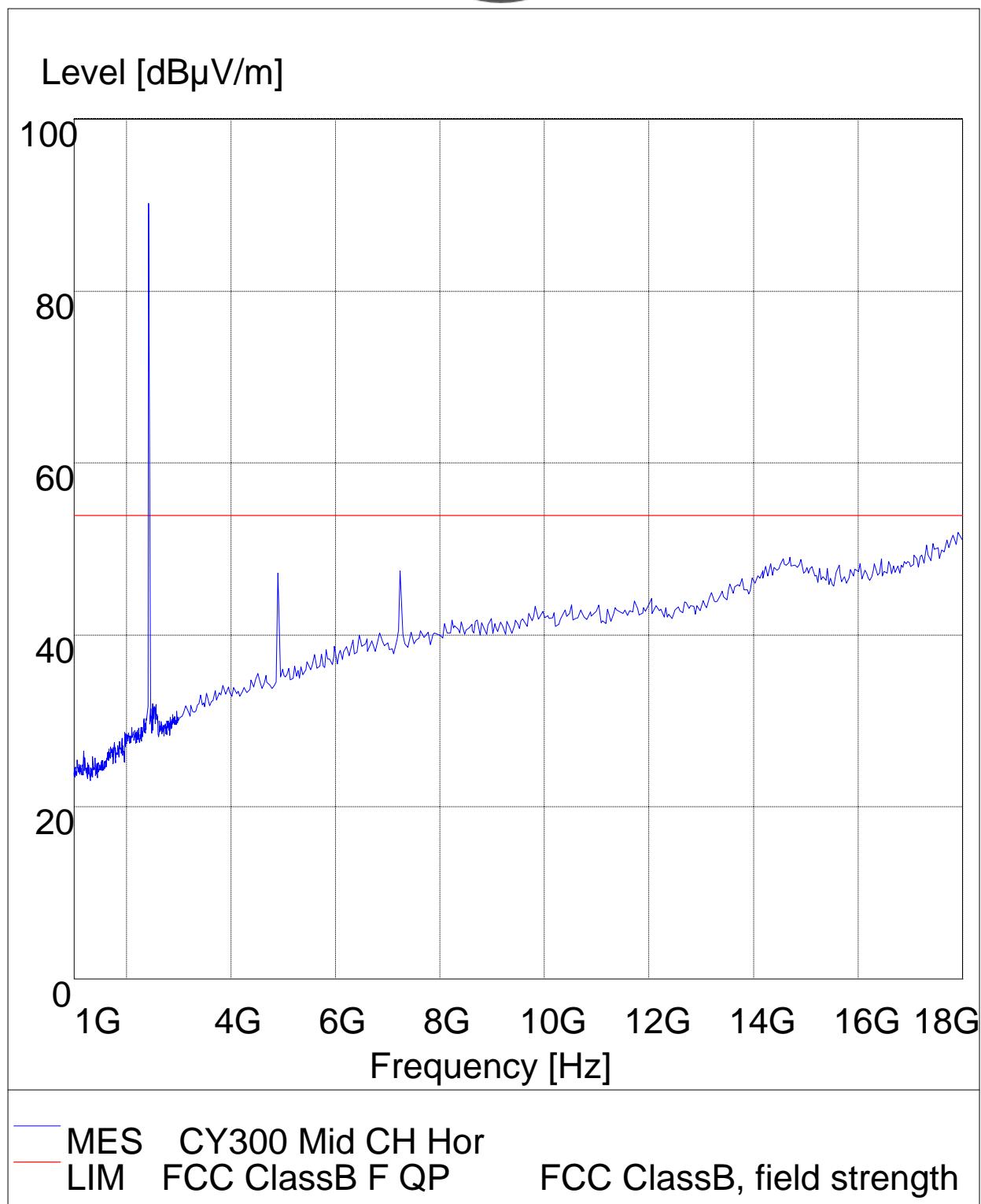
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Middle Channel : Horizontal



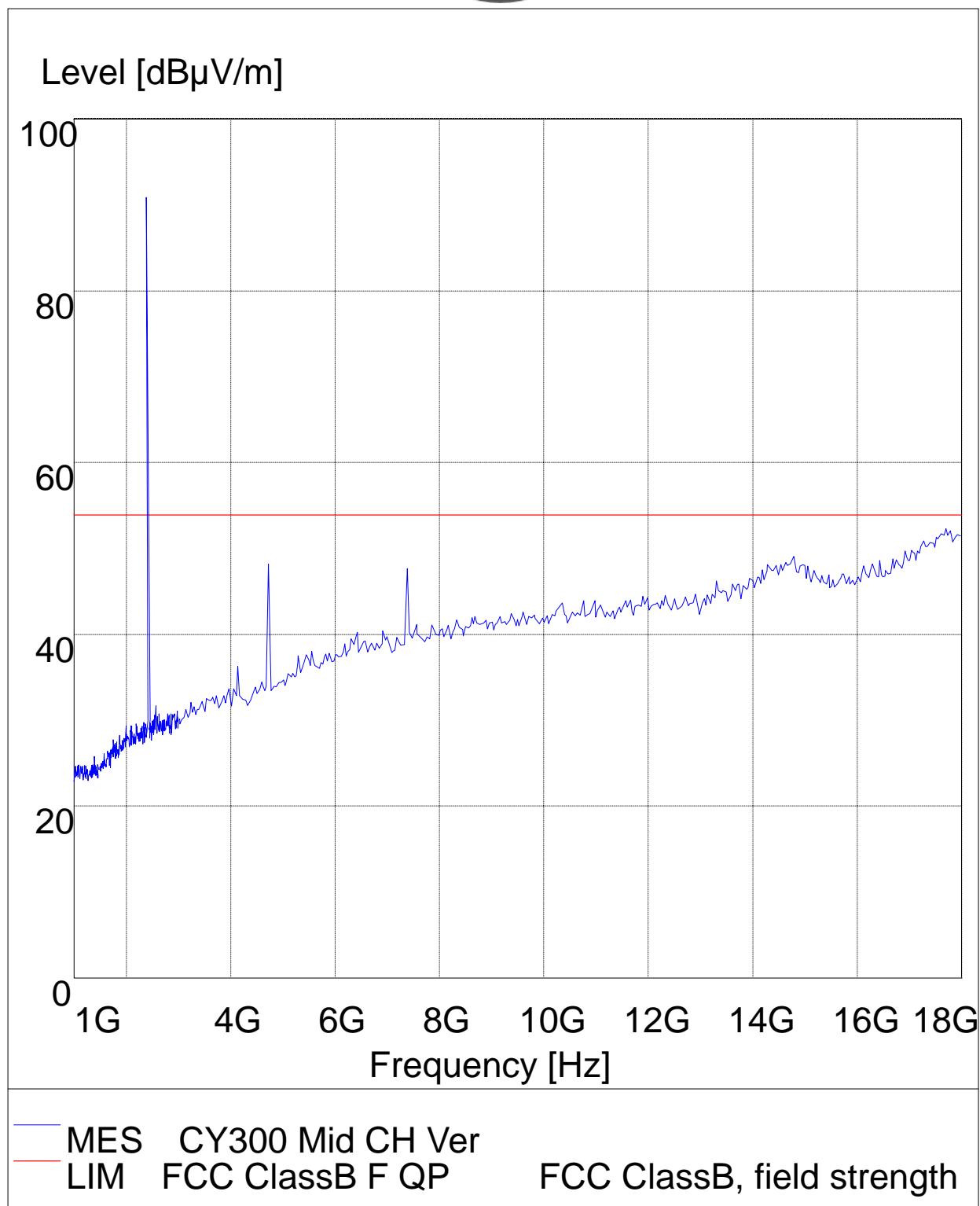
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Middle Channel : Vertical



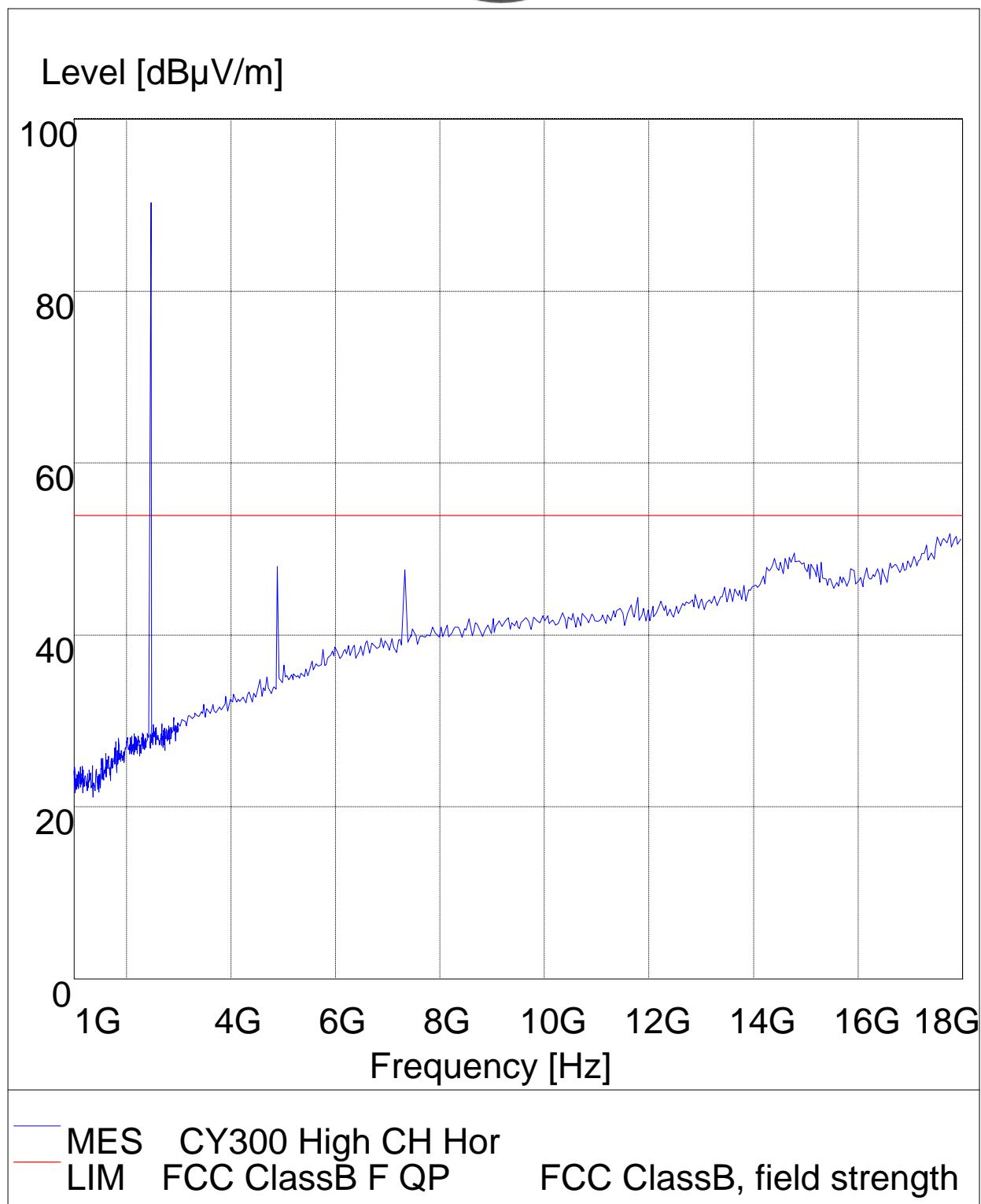
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High Channel : Horizontal



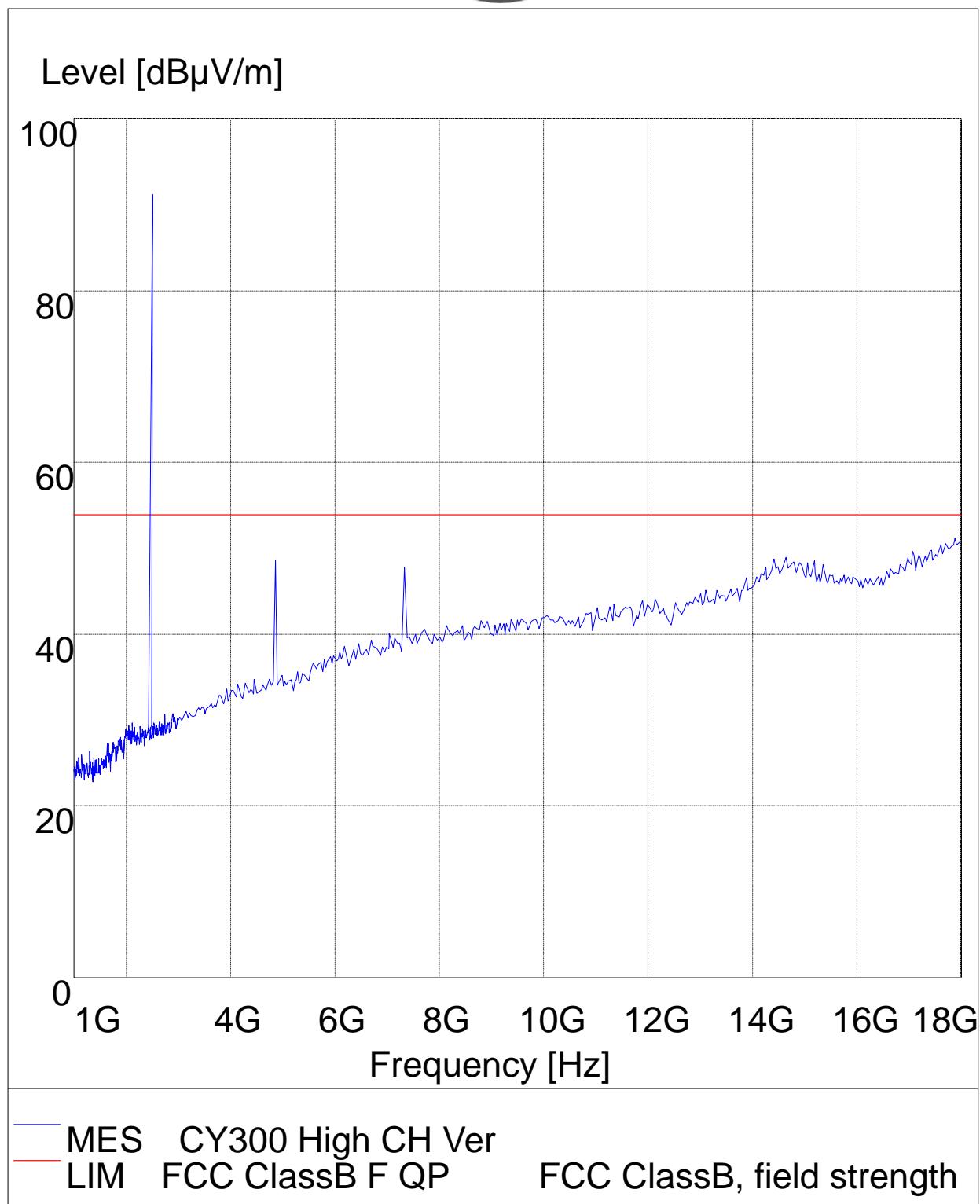
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High Channel : Vertical



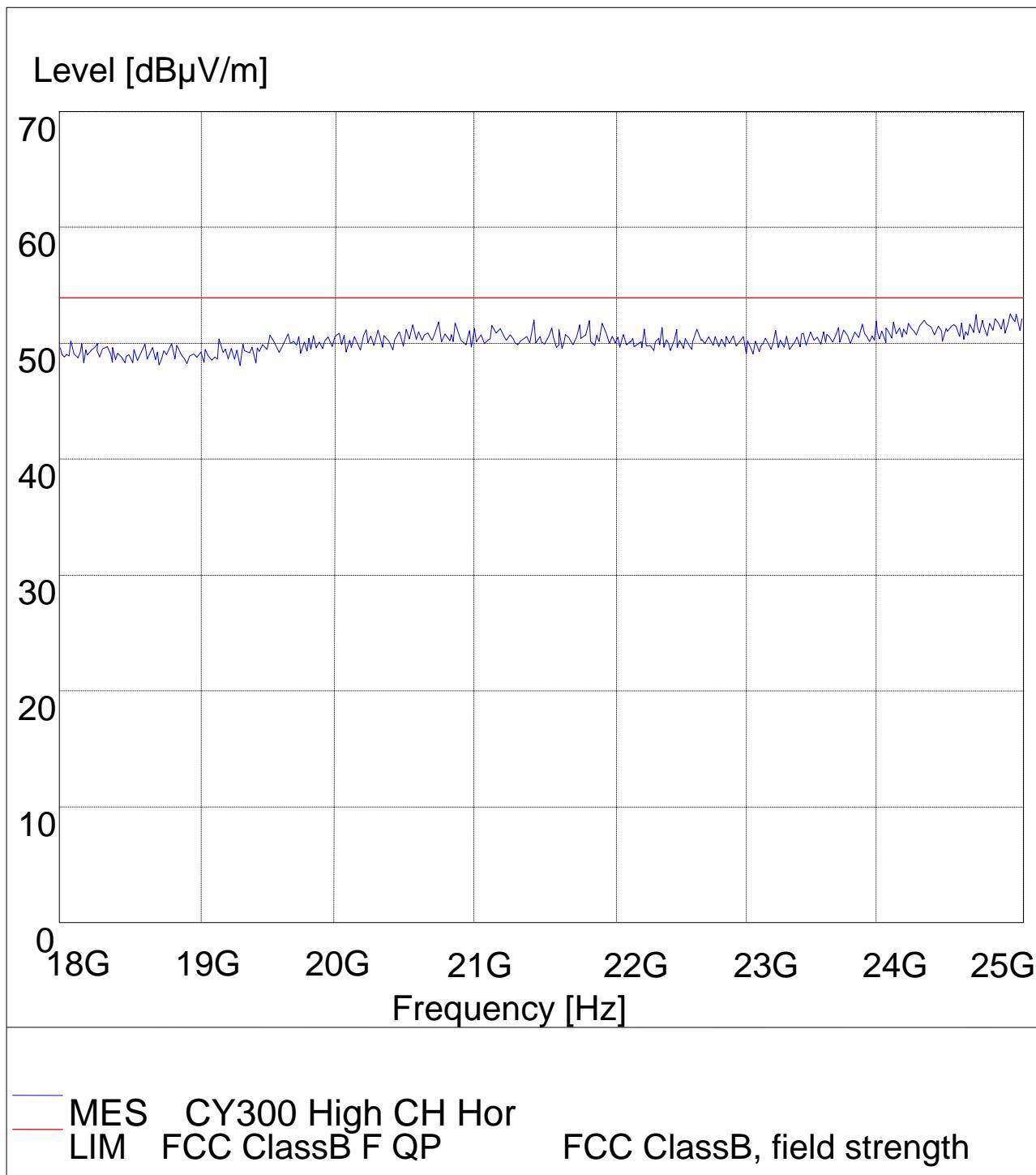
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18-25G  
CH High Horizontal



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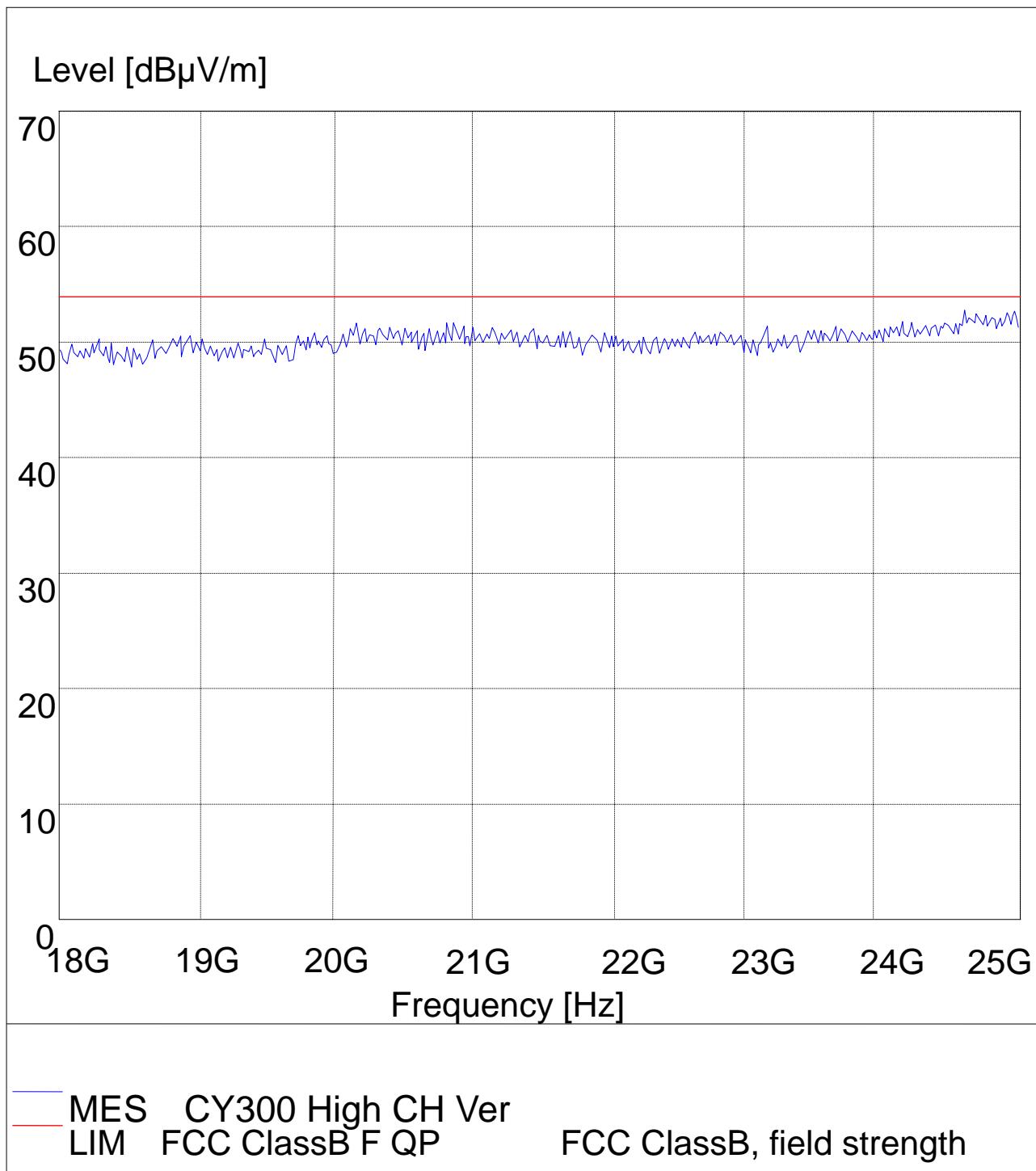
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18-25G

CH High Vertical



The report refers only to the sample tested and does not apply to the bulk.

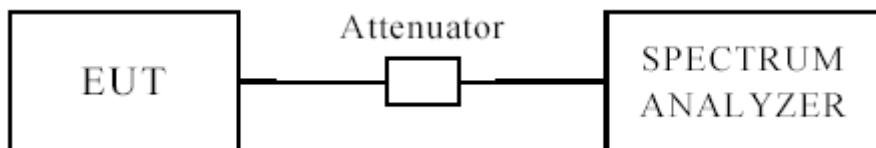
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## 7.0 6dB Bandwidth Measurement

### 7.1 Test Setup



### 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

### 7.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator.

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 100 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

### 7.4 Test Result

EUT		3CH Radio Control	Model	CY300
Mode		Keep Transmitting	Input Voltage	DC 9.6V
Temperature		24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
Low	2403	0.641	0.5	Pass
Mid	2440	0.531	0.5	Pass
High	2477	0.531	0.5	Pass

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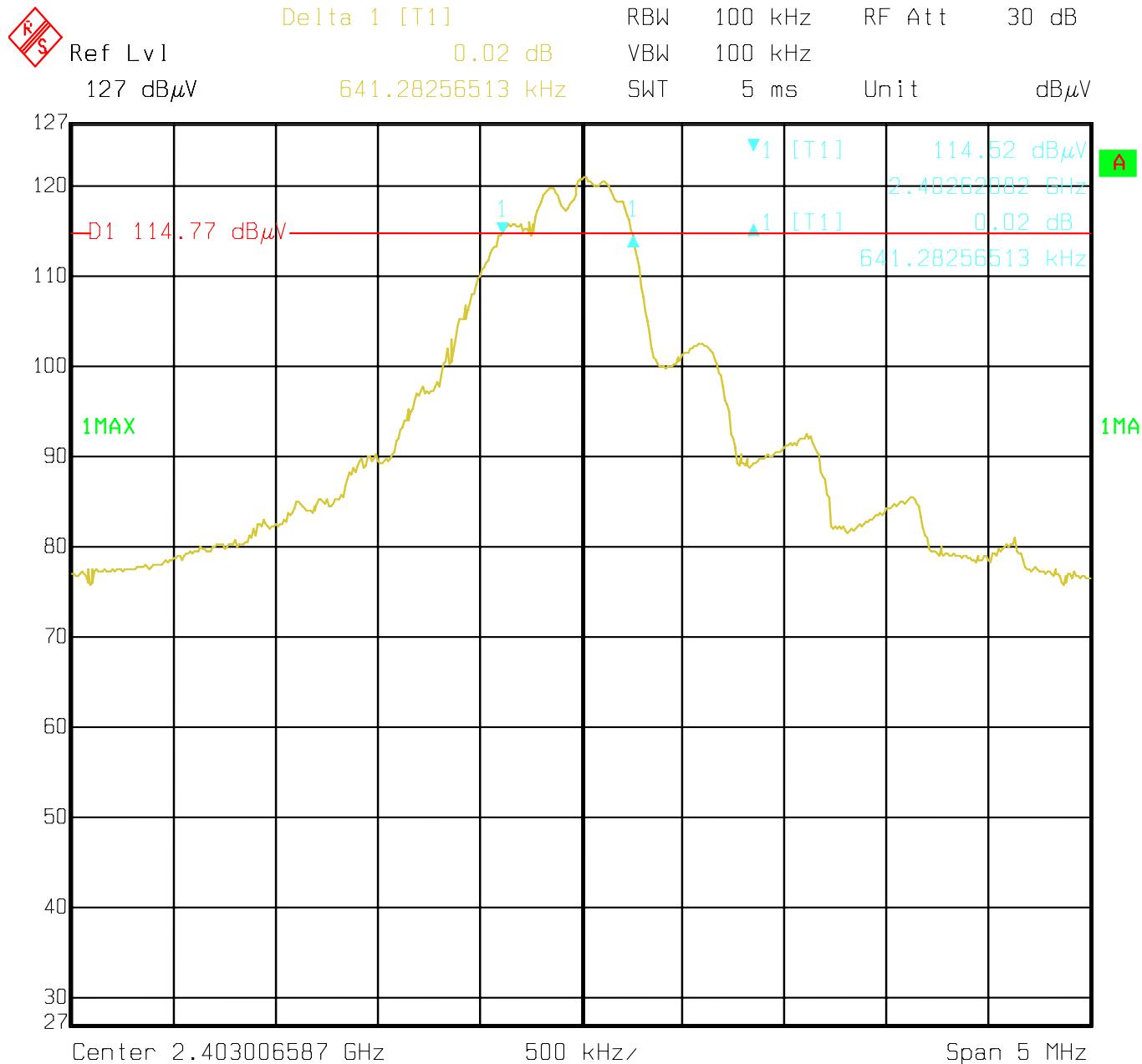
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**Test Plots:**

**1. CH Low**



Date: 08.AUG.2010 16:36:54

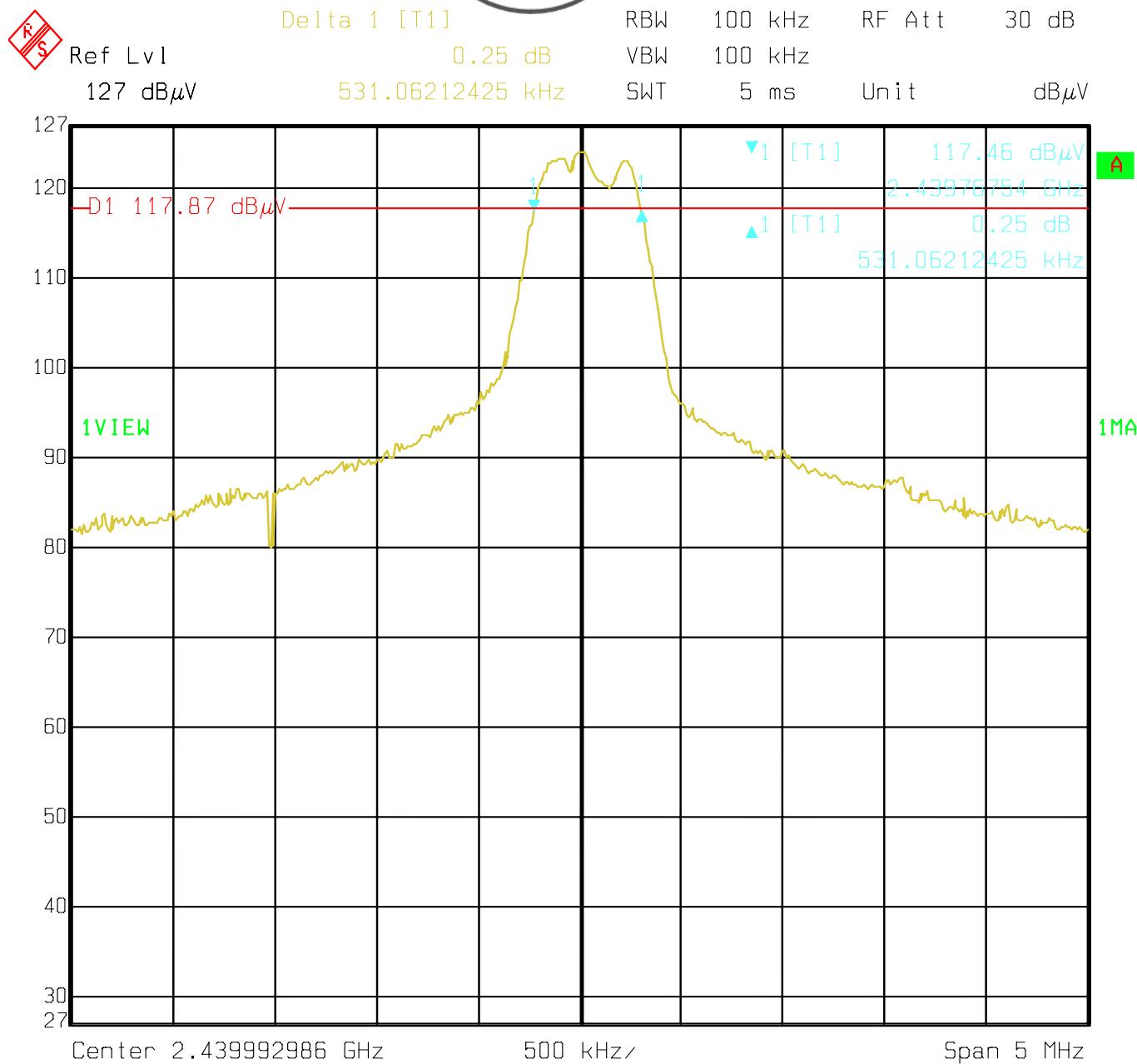
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## 2. CH Mid



Date: 08.AUG.2010 15:52:10

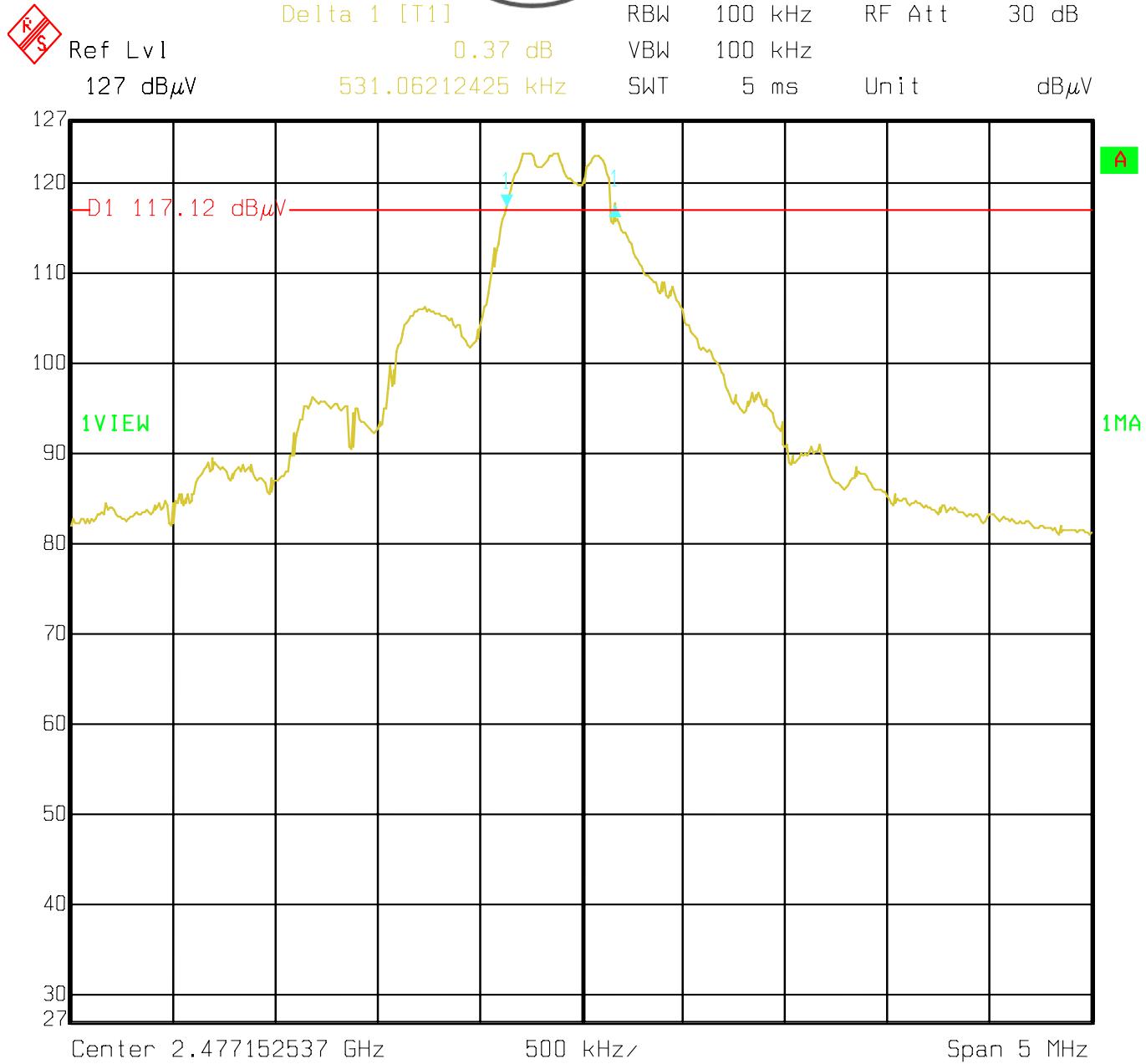
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### 3. CH High



Date: 08.AUG.2010 14:31:00

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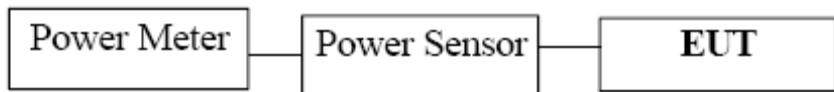
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## 8. Maximum Peak Output Power

### 8.1 Test Setup



### 8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

### 8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector ( conducted measurement ) while EUT was operating in transmit mode at the appropriate centre frequency.

### 8.4 Test Results

EUT		3CH Radio Control	Model	CY300
Mode		Keep Transmitting	Input Voltage	DC 9.6V
Temperature		24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
Low	2403	14.11	30	Pass
Mid	2440	16.79	30	Pass
High	2477	15.72	30	Pass

Note: 1. At final test to get the worst-case emission for CH Low, CH Mid and CH High

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

The report refers only to the sample tested and does not apply to the bulk.

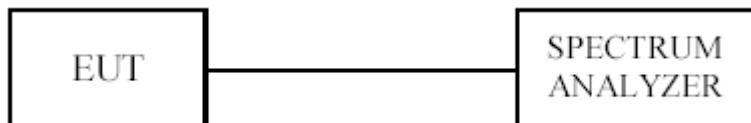
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## 9. Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

### 9.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3KHz RBW and 10kHz VBW, set sweep time=500s

The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span / 3KHz for a full response of the mixer in the spectrum analyzer.

### 9.4 Test Result

EUT		3CH Radio Control	Model	CY340
Mode		Keep Transmitting	Input Voltage	DC 9.6V
Temperature		24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
Low	2403	6.04	8	Pass
Mid	2440	5.83	8	Pass
High	2477	5.99	8	Pass

Note: At final test to get the worst-case emission for CH Low, CH Mid and CH High

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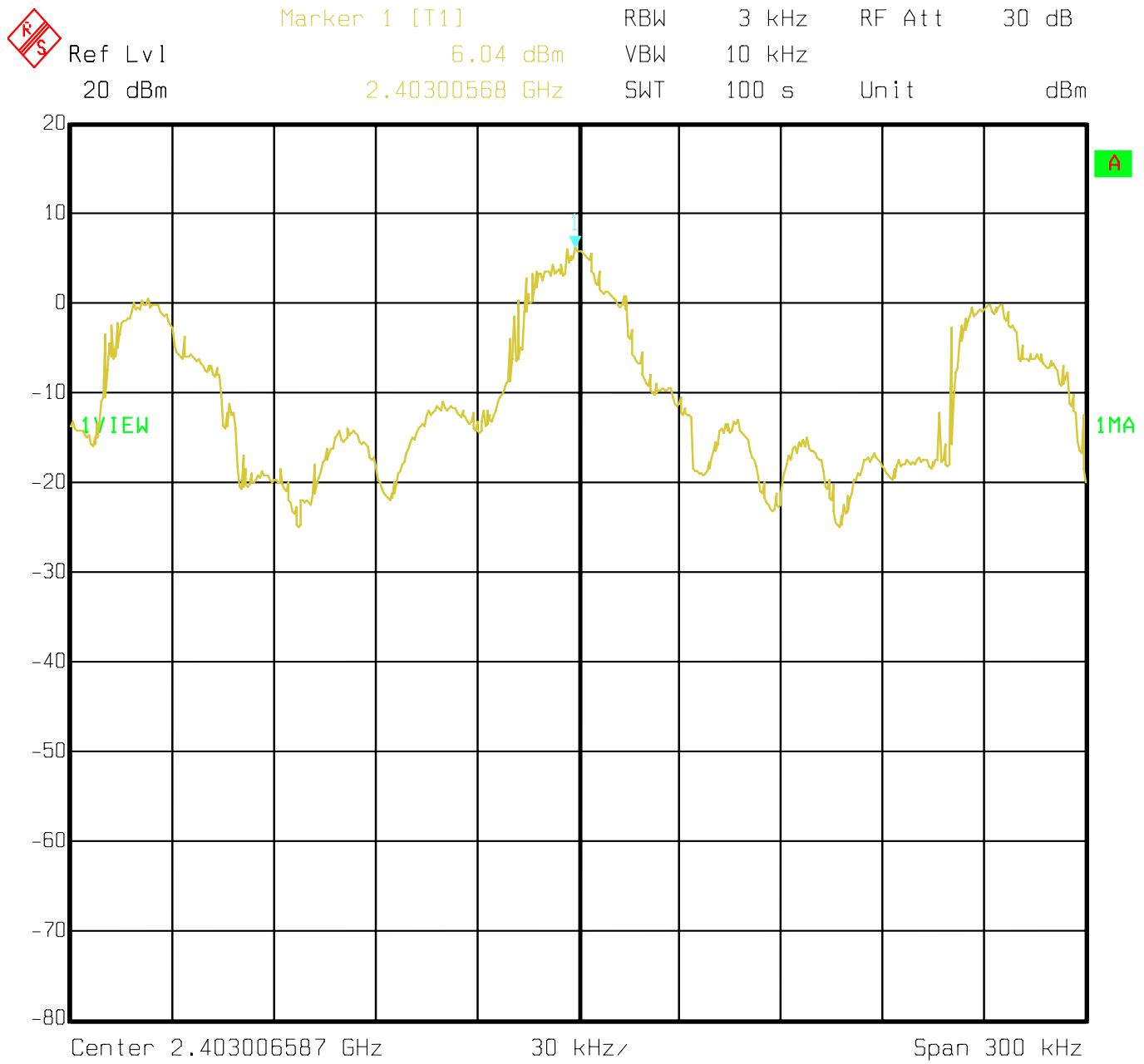
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### 9.5 Photo of Power Spectral Density Measurement

#### 1.CH Low



Date: 08.AUG.2010 16:22:28

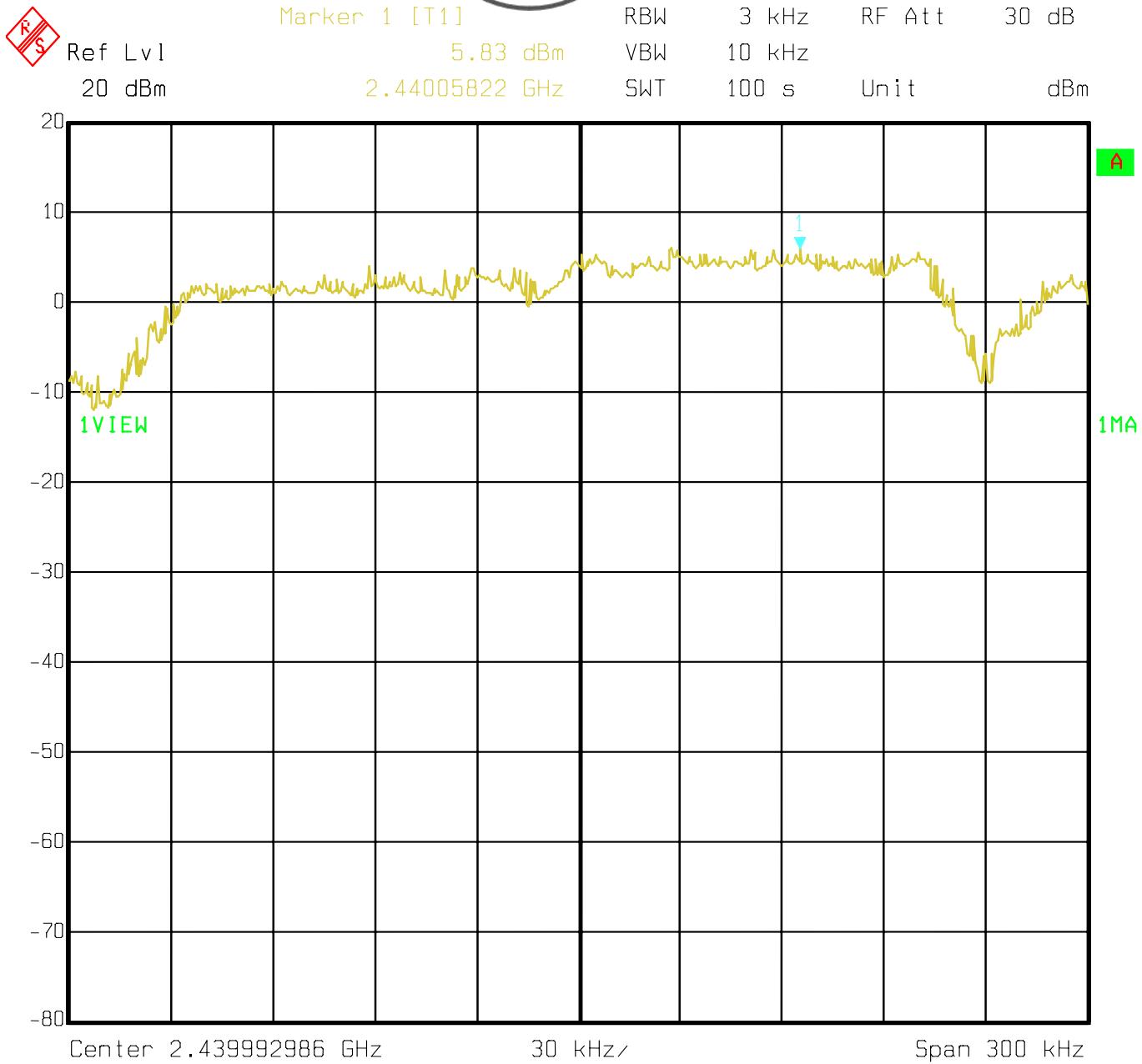
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2. CH Mid



Date: 08.AUG.2010 15:31:12

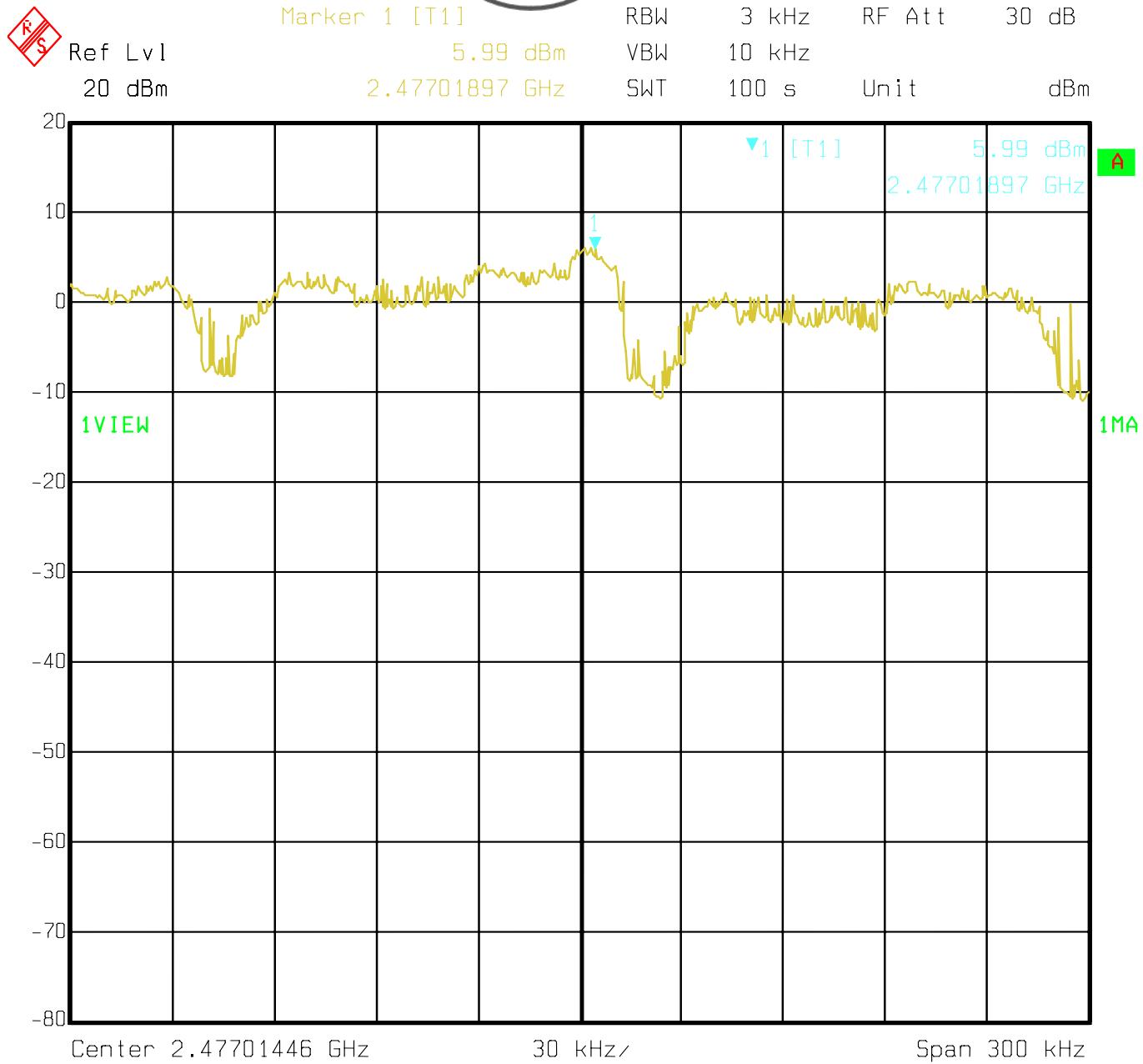
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3. CH High



Date: 08.AUG.2010 14:41:47

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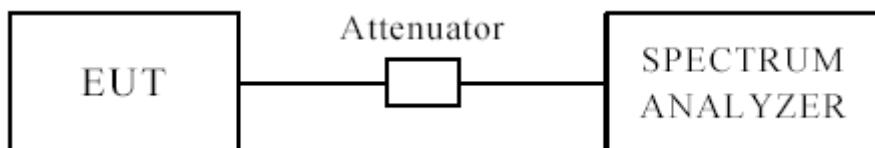
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## 10 Out of Band Measurement

### 10.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

### 10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209

### 10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.( Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measurement used

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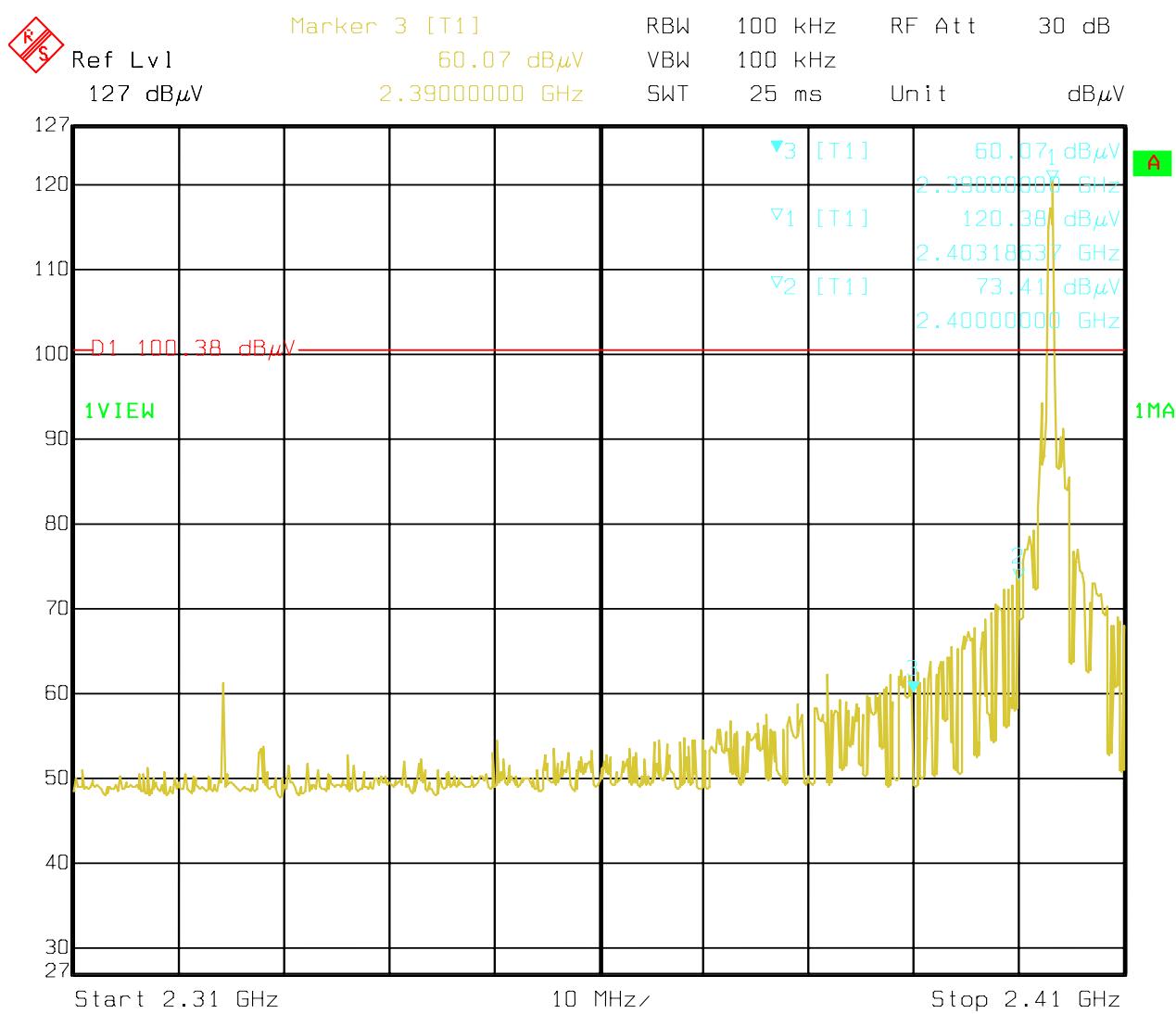
#### 10.4 Test Result

CH Low

##### 10.4 Out of Band Test Result

EUT	3CH Radio Control		Model	CY300
Mode	Keep Transmitting		Input Voltage	DC 9.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dB $\mu$ V/m)	58.2(V)/54.6(H)	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	45.2(V)/40.2(H)		54(dB $\mu$ V/m)

##### Test Figure:



Date: 08.AUG.2010 16:48:05

**Note: The Max. FS in Restrict Band are measured in conventional method**

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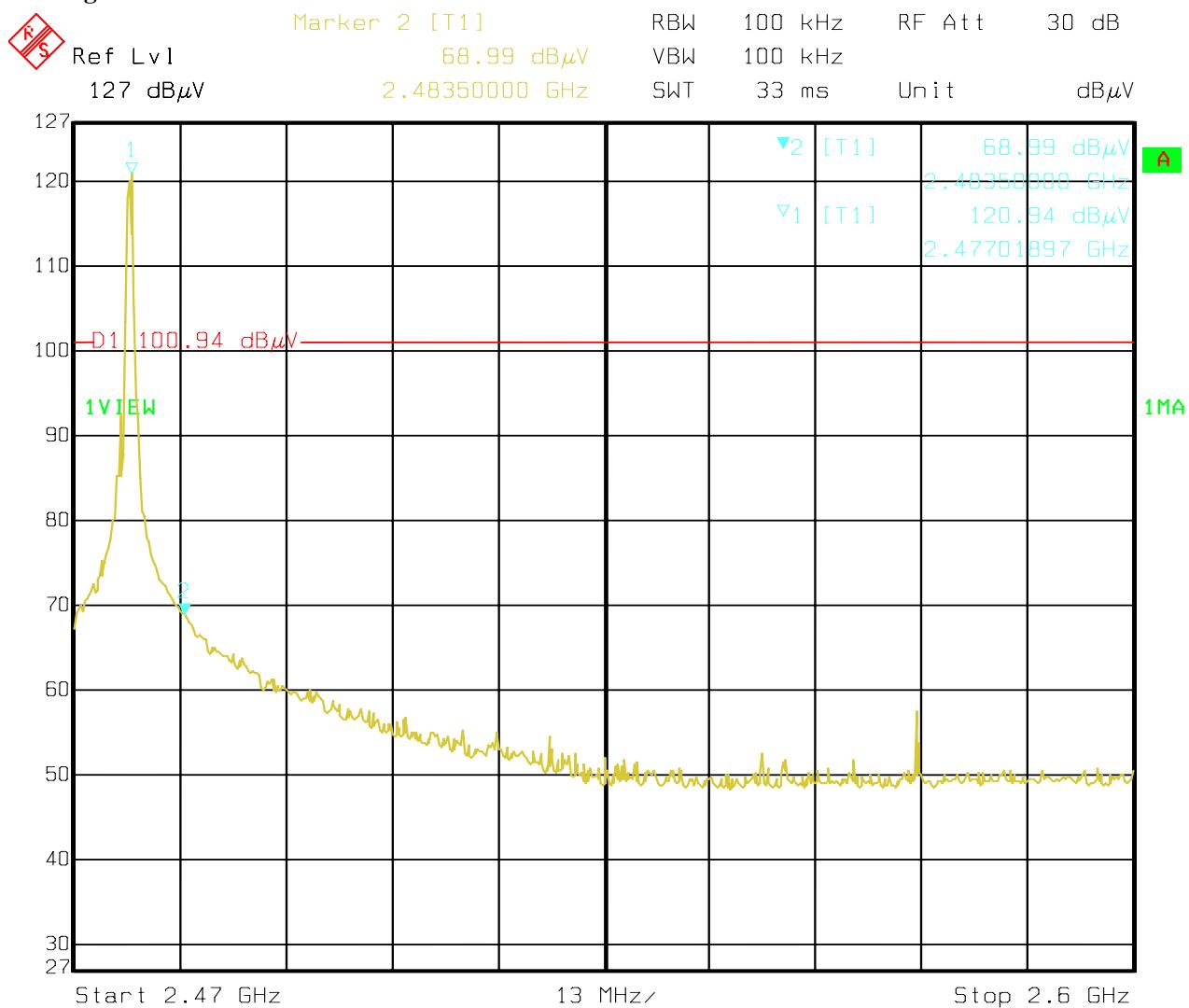


CH High

#### 10.4 Out of Band Test Result

EUT	3CH Radio Control		Model	CY300
Mode	Keep Transmitting		Input Voltage	DC 9.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dB $\mu$ V/m)	62.5(V)/57.2(H)	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	48.2(V)/44.2(H)		54(dB $\mu$ V/m)

#### Test Figure:



Date: 08.AUG.2010 14:45:09

**Note: The Max. FS in Restrict Band are measured in conventional method.**

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## 11.0 Antenna Requirement

### 11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

### 11.2 Antenna Connected construction

The antenna is Dipole antenna. The maximum Gain of this antenna is 2.5dBi

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## 12.0 Maximum Permissible Exposure

### Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

#### (a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Times   E   <sup>2</sup> ,   H   <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100000			5	6

#### (b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Times   E   <sup>2</sup> ,   H   <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

Note: f=frequency in MHz; \*Plane-wave equivalent power density

### MPE Calculation Method

$$E \text{ (V/m)} = (30*P*G)^{0.5}/d \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = E^2/377$$

**E** = Electric Field (V/m)

**P** = Peak RF output Power (W)

**G** = EUT Antenna numeric gain (numeric)

**d** = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = (30*P*G) / (377*d^2)$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

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### Calculated Result and Limit

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.778	16.79	47.7529	0.01689	1	Compiles

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### 13.0 FCC ID Label

**FCC ID: V6KCY300**

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

**Mark Location:**



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#### 14.0 Photo of testing

14.1 Emission Radiated test View--



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14.2 Photo for the EUT

Outside View



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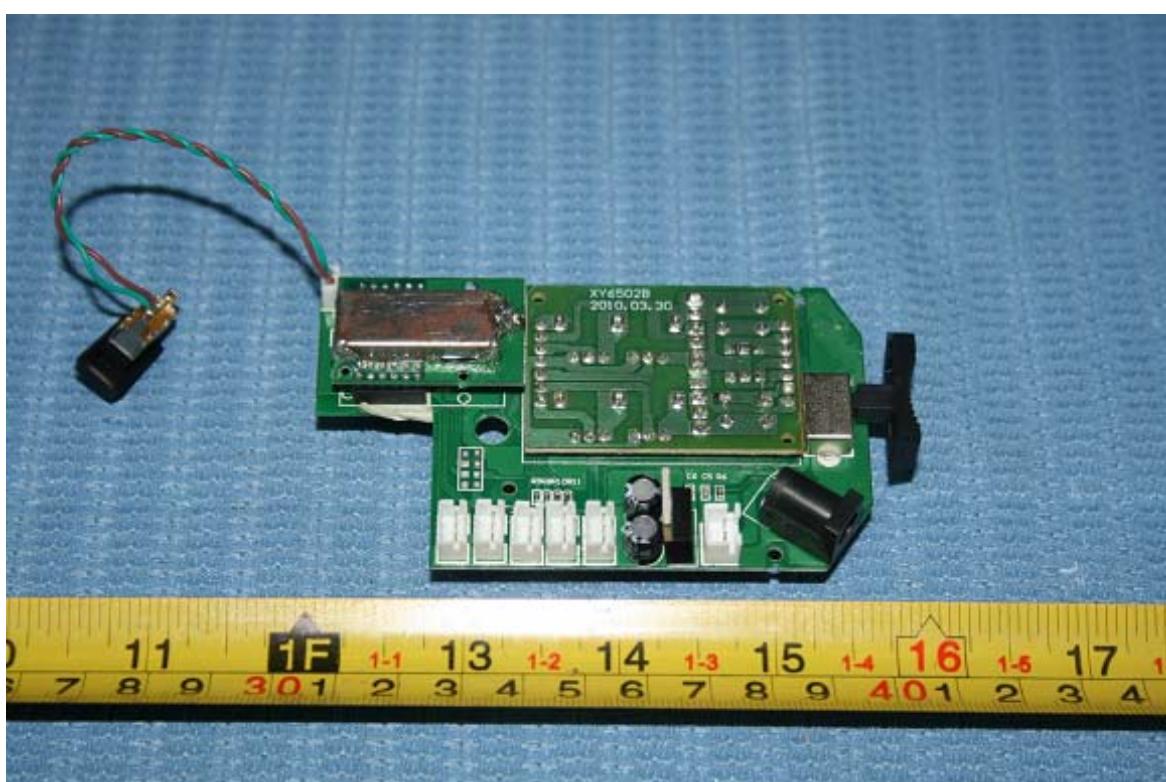
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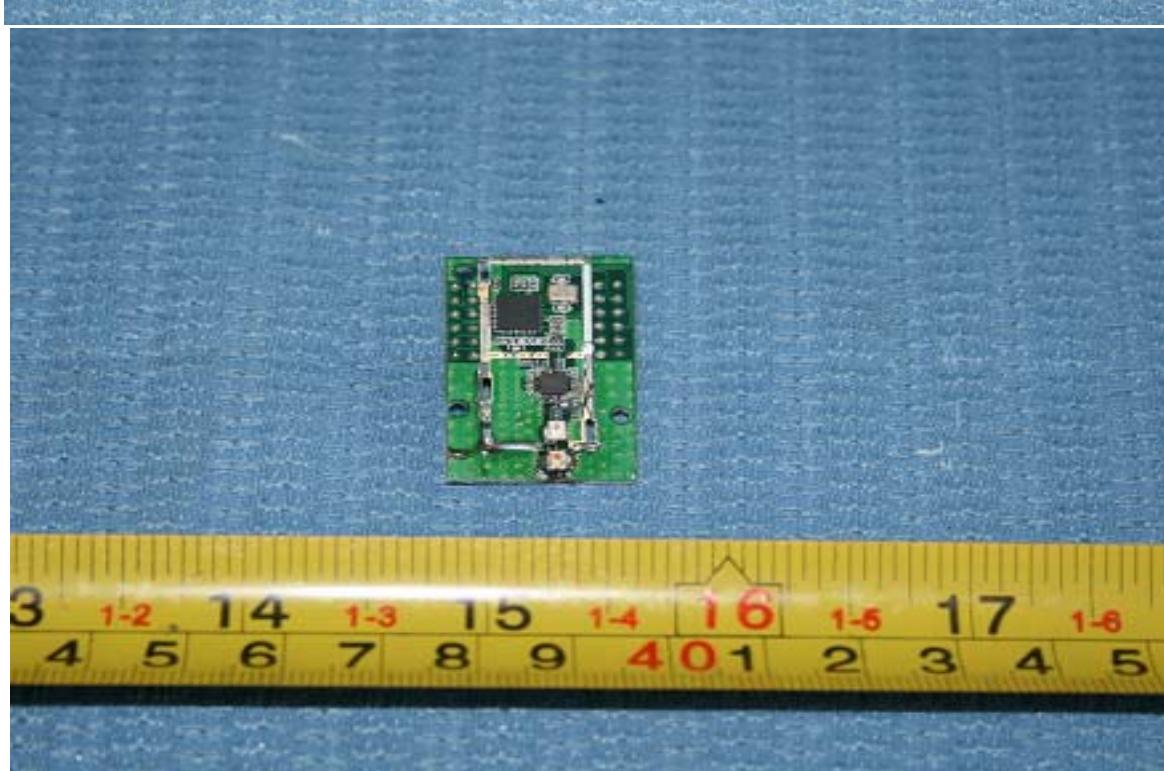
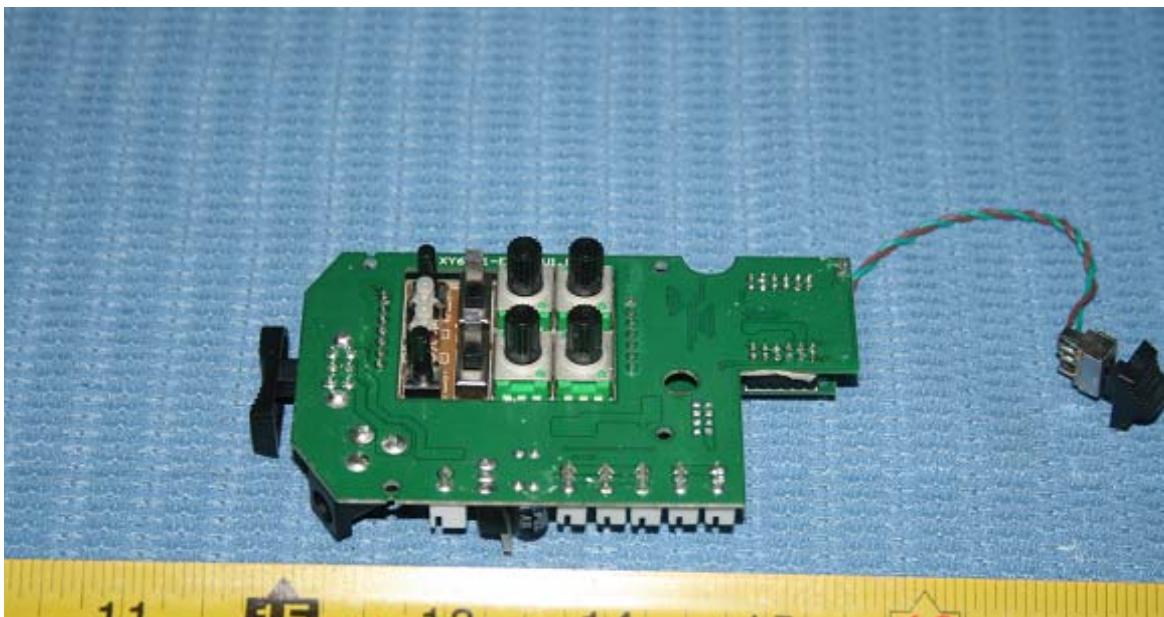
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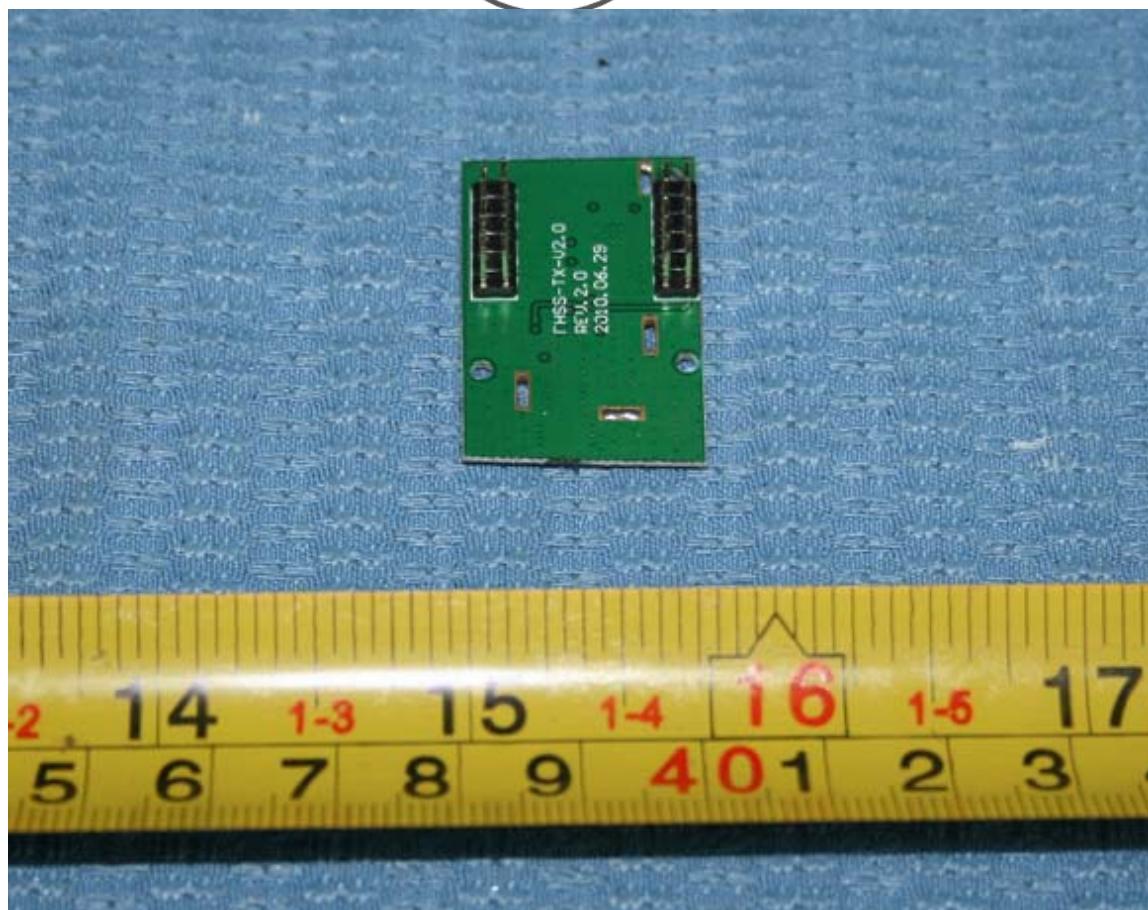
Interior View



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