

**SGS-CSTC Standards  
Technical Services Co., Ltd.**

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Report No.: SHEMO050800377RFR  
Page 1 of 47

***EMC TEST REPORT***

**Application No.:** SHEMO050800377RFR  
**Applicant:** Tensho (Xiamen) Model.co.,ltd  
**Equipment under Test (EUT)**

**NOTE:** The following sample(s) submitted was/were identified on behalf of the client as

EUT Name: 4ch/5ch/6ch Radio  
Model No.: TTX02  
Serial No.: Not supplied by client

**Standards:** CFR 47 part 2: 2004,  
CFR 47 Part 95: 2005,  
ANSI C63.4: 2003

**Date of Receipt:** 31 August 2005  
**Date of Test:** 5 September 2005 to 14 October 2005  
**Date of Issue:** 19 October 2005

<b>Test Result :</b>	<b>PASS *</b>
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- \* In the configuration tested, the EUT detailed in this report complied with the standards specified above.  
Please refer to section 2 of this report for further details.

Authorized Signature:



Tino Pan  
E&E Section Head  
SGS-CSTC Co., Ltd.

Parker Liu  
E&E Project Engineer  
SGS-CSTC Co., Ltd

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf  
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK.. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.  
This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.  
All test results in this report can be traceable to National or International Standards.

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Report No.: SHEMO050800377RFR

Page 2 of 47

## 1 Test Summary

<ul style="list-style-type: none"><li>The EUT belongs to Radio Control (R/C) Radio Service device. It is a private, one-way, short distance non-voice communication remote device.</li></ul>				
Test	Test Requirement	Test Method	Limit / Severity	Result
Frequency stability	CFR 47 Part 95: 2005 §95.623 (c)	ANSI C63.4: 2003	0.002%	PASS
Effective Radiated Power	CFR 47 Part 95: 2005 §95.637 (b)(3)	ANSI C63.4: 2003	0.75W (28.75dBm)	PASS
Occupied bandwidth	CFR 47 Part 95: 2005 §95.635 (b)	ANSI C63.4: 2003	(1)(10)(11)(12)	PASS
Unwanted Radiation	CFR 47 Part 95: 2005 §95.635 (b)	ANSI C63.4: 2003	(1)(3)(7)(10) (11)(12)	PASS

RF: In this whole report RF means Radiated Frequency.

Statement: When measuring the ERP for the fundamental and spurious emissions, we used the substitution method of measurement as prescribed under ANSI/TIA-603-B-2002 or C-version sections 2.2.12 and 2.2.17.2.

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Report No.: SHEMO050800377RFR  
Page 3 of 47

## 2 Contents

	Page
<b>COVER PAGE .....</b>	<b>1</b>
<b>1 TEST SUMMARY.....</b>	<b>2</b>
<b>2 CONTENTS .....</b>	<b>3</b>
<b>3 GENERAL INFORMATION.....</b>	<b>4</b>
<b>3.1 CLIENT INFORMATION .....</b>	<b>4</b>
<b>3.2 GENERAL DESCRIPTION OF E.U.T.....</b>	<b>4</b>
<b>3.3 DETAILS OF E.U.T. ....</b>	<b>4</b>
<b>3.4 DESCRIPTION OF SUPPORT UNITS .....</b>	<b>4</b>
<b>3.5 STANDARDS APPLICABLE FOR TESTING.....</b>	<b>4</b>
<b>3.6 TEST LOCATION .....</b>	<b>5</b>
<b>3.7 DEVIATION FROM STANDARDS .....</b>	<b>5</b>
<b>3.8 ABNORMALITIES FROM STANDARD CONDITIONS.....</b>	<b>5</b>
<b>3.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER .....</b>	<b>5</b>
<b>3.10 TEST CONFIDENT LEVEL .....</b>	<b>5</b>
<b>4 EQUIPMENTS USED DURING TEST .....</b>	<b>6</b>
<b>5 RADIO TECHNICAL REQUIREMENTS SPECIFICATION IN CFR 47 PART 95: 2005 .....</b>	<b>8</b>
<b>5.1 TRANSMITTER REQUIREMENTS .....</b>	<b>8</b>
<b>5.1.1 Frequency stability.....</b>	<b>8</b>
<b>5.1.2 Effective Radiated Power .....</b>	<b>15</b>
<b>5.1.3 Occupied bandwidth.....</b>	<b>16</b>
<b>5.1.4 Unwanted Radiation.....</b>	<b>23</b>
<b>5.2 PHOTOGRAPHS.....</b>	<b>34</b>

# SGS-CSTC Standards Technical Services Co., Ltd.

1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,  
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Report No.: SHEMO050800377RFR  
Page 4 of 47

## 3 General Information

### 3.1 Client Information

Applicant: Tensho (Xiamen) Model.co.,ltd  
Address of Applicant: 5th floor, Xiesheng Industrial Building, No.70, Longshan Middle Road, Xiamen, CHINA

### 3.2 General Description of E.U.T.

EUT Name: 4ch/5ch/6ch Radio  
Model No.: TTX02  
Frequency Range: 72-73 MHz  
Type of Emission: 8K0F1D  
Authorized Bandwidth 8 kHz for RC Transmitter

### 3.3 Details of E.U.T.

EUT Power Supply: 12V DC (8\*1.5 AA BATTERY)

### 3.4 Description of Support Units

The EUT has been tested independently.

### 3.5 Standards Applicable for Testing

The customer requested EMC tests for a 4ch/5ch/6ch Radio.

The standard used was CFR 47 Part 95: 2005.

Table 1 : Tests Carried Out Under CFR 47 Part 95: 2005		
TEST ITEM		Status
CFR 47 Part 95: 2005 §95.623 (c)	Frequency stability	√
CFR 47 Part 95: 2005 §95.637 (b)(3)	Effective Radiated Power	√
CFR 47 Part 95: 2005 §95.635 (b)	Occupied bandwidth	√
CFR 47 Part 95: 2005 §95.635 (b)	Unwanted Radiation	√

× : Indicates that the test is not applicable,

√ : Indicates that the test is applicable

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Report No.: SHEMO050800377RFR

Page 5 of 47

### 3.6 Test Location

All tests were performed at:

QuieTek Corporation EMC Laboratory, No.716 Yinshan Road, Shanghai, P.R.China

Tel: +86 21 64701390 Fax: +86 21 64514252

### 3.7 Deviation from Standards

None.

### 3.8 Abnormalities from Standard Conditions

None.

### 3.9 Other Information Requested by the Customer

None.

### 3.10 Test Confident level

Test Confident level is recognized, certified, or accredited by the following organizations:

#### **NVLAP – Lab Code: 200632-0**

QuieTek Corporation EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200632-0. Effective through December 31, 2004.

#### **VCCI**

The 10m & 3m Semi-anechoic chamber and Shielded Room of QuieTek Corporation have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: 1153.

Date of Registration: May 29, 2004. Valid until May 18, 2007

#### **CNAL – LAB Code: L0134**

QuieTek Corporation 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.: 142171**

QuieTek Corporation 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 142171, December 9, 2002. With the above and NVLAP, QuieTek Corporation is an authorized test laboratory for the DoC process.

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Report No.: SHEMO050800377RFR  
Page 6 of 47

## 4 Equipments Used during Test

Frequency stability						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (yy-mm-dd)	Cal.Due date (yy-mm-dd)
1	SPECTRUM ANALYZER	R&S	FSP-30	/	2005..3.26	2006.3.25
2	VHAP PRECISION HALFWAVE DIPOLES	R&S	VHAP	1096 + 1097	2005.5.18	2006.5.17
3	UHAP PRECISION HALFWAVE DIPOLES	R&S	UHAP	1075 + 1076	2005.5.18	2006.5.17
4	TEMPERATURE& HUMIDITY BOX	KSON	THS-D2C- 100	K40723	2004.11.18	2005.11.17
5	DC POWER	GW-instek	GPS2303C	EF832649	/	/
6	Audio Analyzer	R&S	UPL 16	100018	2004-12-24	2005-12-23

Effective Radiated Power						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (yy-mm-dd)	Cal.Due date (yy-mm-dd)
1	HORN ANTENNA	R&S	HF 906	100023	2005-06-17	2006-06-16
2	BROADBAND ANTENNA	R&S	HL 562	100019	2005-06-17	2006-06-16
3	VHAP PRECISION HALFWAVE DIPOLES	R&S	VHAP	1096 + 1097	2005.5.18	2006.5.17
4	UHAP PRECISION HALFWAVE DIPOLES	R&S	UHAP	1075 + 1076	2005.5.18	2006.5.17
5	Audio Analyzer	R&S	UPL 16	100018	2004-12-24	2005-12-23
6	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2005-03-06	2006-03-05
7	10m Semi-Anechoic Chamber	FRANKONIA	/	/	2004-10-15	2005-10-14

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Tino\_Pan@sgs.com

Report No.: SHEMO050800377RFR

Page 7 of 47

<b>Occupied bandwidth &amp; Unwanted Radiation</b>						
<b>Item</b>	<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Date (yy-mm-dd)</b>	<b>Cal.Due date (yy-mm-dd)</b>
1	HORN ANTENNA	R&S	HF 906	100023	2005-06-17	2006-06-16
2	BROADBAND ANTENNA	R&S	HL 562	100019	2005-06-17	2006-06-16
3	Audio Analyzer	R&S	UPL 16	100018	2004-12-24	2005-12-23
4	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2005-03-06	2006-03-05
5	10m Semi-Anechoic Chamber	FRANKONIA	/	/	2004-10-15	2005-10-14

## General Equipment

<b>Item</b>	<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Date (dd-mm-yy)</b>	<b>Cal.Due date (dd-mm-yy)</b>
1	Barometer	Chang chun qi xiang	DYM3	0124	2005-06-06	2007-06-05
2	DMM	UNI-T	UT 222	45402866	2005-01-25	2006-01-24
3	Temperature, Humidity	Zhi cheng	ZC1-2	/	2005-07-06	2006-07-05

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Report No.: SHEMO050800377RFR  
Page 8 of 47

## 5 Radio Technical Requirements Specification in CFR 47 Part 95: 2005

### 5.1 Transmitter Requirements

The EUT is a private, one-way, short distance non-voice communication remote device.

#### 5.1.1 Frequency stability

**Test Date:** 10 October 2005

**Test Method:** ANSI C63.4: 2003

**EUT Operation:**

Ambient: Temp.: 23 °C, Humid.: 43 % Press.: 1010 mBar  
Status:

The transmitter was placed in the temperature chamber at 25 degrees C and allowed to stabilize for one hour. The transmitter was keyed ON for one minute during which four frequency readings were recorded at 15 second intervals. The worse case number was taken for temperature plotting. The assigned channel frequency was considered to be the reference frequency. The temperature was then reduced to -30 degrees C after which the transmitter was again allowed to stabilize for one Hour. The transmitter was keyed ON for one minute, and again frequency readings were noted at 15 seconds intervals. The worst case Number was recorded for temperature plotting. This procedure was repeated in 10-degree increments up to + 50 degrees C.

Readings were also taken at the end point of the battery voltage of 12VDC.

##### 5.1.1.1 Requirements:

Temperature and voltage tests were performed to verify that the frequency remains within the .002%, 20 ppm specification limit.

##### 5.1.1.2 Measurement Record:

**Uncertainty:  $\pm 3\text{dB}$**

4ch Radio

Frequency of crystal: 72.11MHz

Reference Frequency: 72.111125 MHz



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Report No.: SHEMO050800377RFR

Page 9 of 47

Temperature	Frequency (MHz)	PPM
-30C	72.111812	9.53
-20C	72.111364	3.31
-10C	72.110539	-8.13
0C	72.111467	4.74
10C	72.110986	-1.93
20C	72.111114	-0.15
30C	72.111100	-0.35
40C	72.110825	-4.16
50C	72.111630	7.00

STATE	Frequency (MHz)	VOLTAGE	PPM
-15% BATTERY END POINT	72.111159	10.2VDC	0.47

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -8.13 to +9.53ppm. The maximum frequency variation with voltage was 0.47 ppm.

Frequency of crystal: 72.55MHz

Reference Frequency: 72.551125 MHz

Temperature	Frequency (MHz)	PPM
-30C	72.549860	-17.44
-20C	72.550837	-3.97
-10C	72.551263	1.90
0C	72.551038	-1.20
10C	72.551191	0.91
20C	72.551162	0.51
30C	72.551100	-0.34
40C	72.550750	-5.17
50C	72.550368	-10.43

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Report No.: SHEMO050800377RFR  
Page 10 of 47

STATE	Frequency (MHz)	VOLTAGE	PPM
-15% BATTERY END POINT	72.551086	10.2VDC	-0.54

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -17.44 to +1.90ppm. The maximum frequency variation with voltage was -0.54 ppm.

Frequency of crystal: 72.99MHz

Reference Frequency: 72.991275 MHz

Temperature	Frequency (MHz)	PPM
-30C	72.990699	-7.89
-20C	72.990732	-7.44
-10C	72.992032	10.37
0C	72.991537	3.59
10C	72.991038	-3.25
20C	72.991307	0.44
30C	72.991200	-1.03
40C	72.990900	-5.14
50C	72.991734	6.36

STATE	Frequency (MHz)	VOLTAGE	PPM
-15% BATTERY END POINT	72.991358	10.2VDC	1.14

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -7.89 to +10.37ppm. The maximum frequency variation with voltage was 1.14 ppm.

5ch Radio

Frequency of crystal: 72.11MHz

Reference Frequency: 72.110900 MHz

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Report No.: SHEMO050800377RFR  
Page 11 of 47

Temperature	Frequency (MHz)	PPM
-30C	72.111316	5.77
-20C	72.109962	-13.00
-10C	72.111328	5.94
0C	72.110367	-7.39
10C	72.110581	-4.42
20C	72.111063	2.26
30C	72.111150	3.47
40C	72.110650	-3.47
50C	72.110135	-10.61

STATE	Frequency (MHz)	VOLTAGE	PPM
-15% BATTERY END POINT	72.111003	10.2VDC	1.42

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -13.00 to +5.94ppm. The maximum frequency variation with voltage was 1.42 ppm.

Frequency of crystal: 72.55MHz

Reference Frequency: 72.550950 MHz

Temperature	Frequency (MHz)	PPM
-30C	72.551832	12.16
-20C	72.551330	5.24
-10C	72.550641	-4.26
0C	72.550723	-3.13
10C	72.551005	-0.76
20C	72.551103	2.11
30C	72.551125	2.41
40C	72.550625	-4.48
50C	72.551362	5.68

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Report No.: SHEMO050800377RFR  
Page 12 of 47

STATE	Frequency (MHz)	VOLTAGE	PPM
-15% BATTERY END POINT	72.550902	10.2VDC	-0.66

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -4.48 to +12.16ppm. The maximum frequency variation with voltage was -0.66 ppm.

Frequency of crystal: 72.99MHz

Reference Frequency: 72.990775 MHz

Temperature	Frequency (MHz)	PPM
-30C	72.989989	-10.77
-20C	72.990032	-10.18
-10C	72.990269	-6.93
0C	72.991038	3.60
10C	72.990931	2.14
20C	72.990827	0.71
30C	72.991150	5.14
40C	72.990950	2.40
50C	72.991238	6.34

STATE	Frequency (MHz)	VOLTAGE	PPM
-15% BATTERY END POINT	72.990846	10.2VDC	0.97

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -10.77 to +6.34ppm. The maximum frequency variation with voltage was 0.97 ppm.

6ch Radio

Frequency of crystal: 72.11MHz

Reference Frequency: 72.110625 MHz

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Tino\_Pan@sgs.com

Report No.: SHEMA0050800377RFR

Page 13 of 47

Temperature	Frequency (MHz)	PPM
-30C	72.110038	-8.14
-20C	72.109723	-12.51
-10C	72.111102	6.61
0C	72.110927	4.19
10C	72.110825	2.78
20C	72.110761	1.89
30C	72.110450	-2.43
40C	72.110325	-4.16
50C	72.110942	4.40

STATE	Frequency (MHz)	VOLTAGE	PPM
-15% BATTERY END POINT	72.110762	10.2VDC	1.90

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -12.51 to +6.61ppm. The maximum frequency variation with voltage was 1.90 ppm.

Frequency of crystal: 72.55MHz

Reference Frequency: 72.550575 MHz

Temperature	Frequency (MHz)	PPM
-30C	72.550138	-6.02
-20C	72.550002	-7.89
-10C	72.551038	6.38
0C	72.551230	9.03
10C	72.550602	0.37
20C	72.550566	-0.12
30C	72.550550	-0.34
40C	72.550350	-3.10
50C	72.550932	4.92

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Report No.: SHEMO050800377RFR  
Page 14 of 47

STATE	Frequency (MHz)	VOLTAGE	PPM
-15% BATTERY END POINT	72.550623	10.2VDC	0.66

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -7.89 to +9.03ppm. The maximum frequency variation with voltage was 0.66 ppm.

Frequency of crystal: 72.99MHz

Reference Frequency: 72.991000 MHz

Temperature	Frequency (MHz)	PPM
-30C	72.991258	3.53
-20C	72.991792	10.85
-10C	72.991392	5.37
0C	72.991638	8.74
10C	72.991123	1.69
20C	72.991040	0.55
30C	72.990775	-3.08
40C	72.990550	-6.17
50C	72.990663	-4.62

STATE	Frequency (MHz)	VOLTAGE	PPM
-15% BATTERY END POINT	72.991092	10.2VDC	1.26

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -6.17 to +10.85ppm. The maximum frequency variation with voltage was 1.26 ppm.

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Report No.: SHEMO050800377RFR  
Page 15 of 47

### 5.1.2 Effective Radiated Power

**Test Date:** 28 September 2005

**Test Method:** ANSI C63.4: 2003

**EUT Operation:**

Ambient: Temp.: 24 °C, Humid.: 56 % Press.: 1002 mBar

Status: Keep EUT operating. The EUT is tested when it was placed along three perpendicular axes.

#### 5.1.2.1 Measurement Record:

**Uncertainty:  $\pm 3\text{dB}$**

##### 4ch Radio

Frequency of crystal	Max Level	Limit
72.11MHz	-22.5dBm	28.75dBm (i.e. =0.75W)
72.55MHz	-12.5dBm	28.75dBm (i.e. =0.75W)
72.99MHz	-5.2dBm	28.75dBm (i.e. =0.75W)

##### 5ch Radio

Frequency of crystal	Max Level	Limit
72.11MHz	-15.2dBm	28.75dBm (i.e. =0.75W)
72.55MHz	-16.0dBm	28.75dBm (i.e. =0.75W)
72.99MHz	-17.6dBm	28.75dBm (i.e. =0.75W)

##### 6ch Radio

Frequency of crystal	Max Level	Limit
72.11MHz	-20.3dBm	28.75dBm (i.e. =0.75W)
72.55MHz	-9.8dBm	28.75dBm (i.e. =0.75W)
72.99MHz	-7.3dBm	28.75dBm (i.e. =0.75W)

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Page 16 of 47

### 5.1.3 Occupied bandwidth

**Test Date:** 28 September 2005

**Test Method:** ANSI C63.4: 2003

**EUT Operation:**

Ambient: Temp.: 23 °C, Humid.: 56 % Press.: 1010 mBar

Status: Keep EUT operating.

Test Result: PASS

#### 5.1.3.1 Requirements:

( 1 )	At least 25 dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.
(10)	At least 45 dB on any frequency removed from the center of the authorized bandwidth by more than 100% up to and including 125% of the authorized bandwidth.
(11)	At least 55 dB on any frequency removed from the center of the authorized bandwidth by more than 125% up to and including 250% of the authorized bandwidth.
(12)	At least $56 + 10 \log_{10}(T)$ dB on any frequency removed from the center of the authorized bandwidth by more than 250%.

#### 5.1.3.2 Measurement Record:

**Uncertainty:  $\pm 3$ dB**

4ch Radio

Frequency of crystal:72.11MHz

FCC ID: TNG05TRA02



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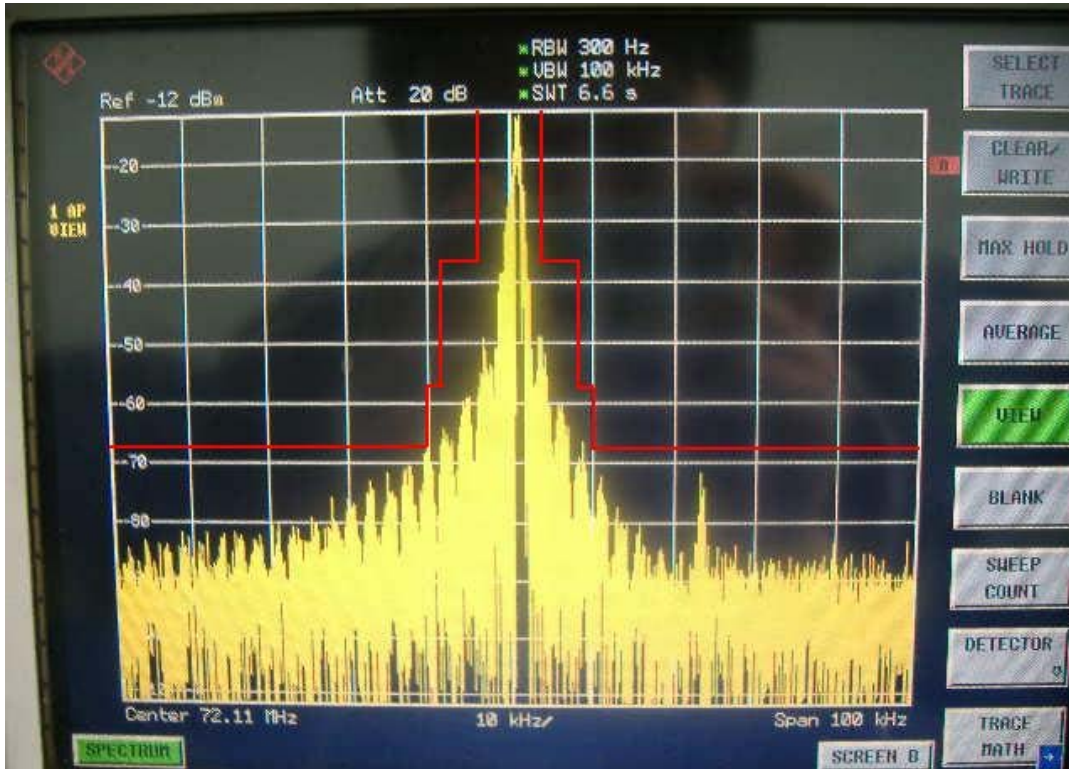
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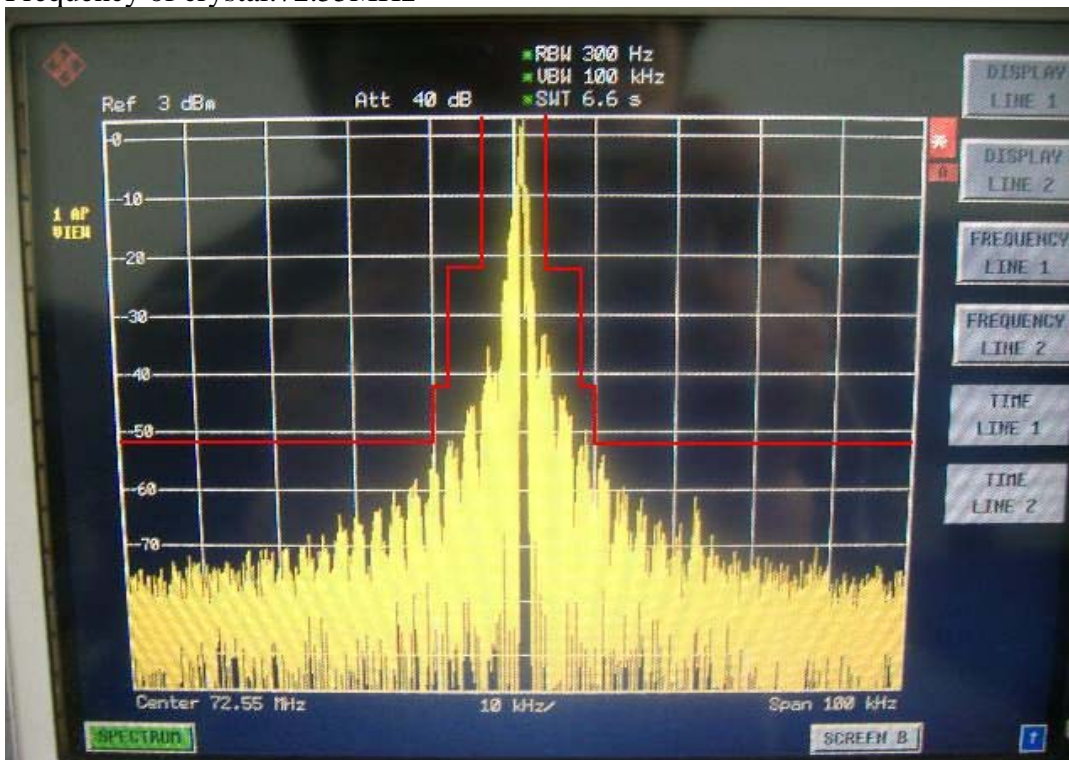
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Page 17 of 47



Frequency of crystal:72.55MHz



Frequency of crystal:72.99MHz

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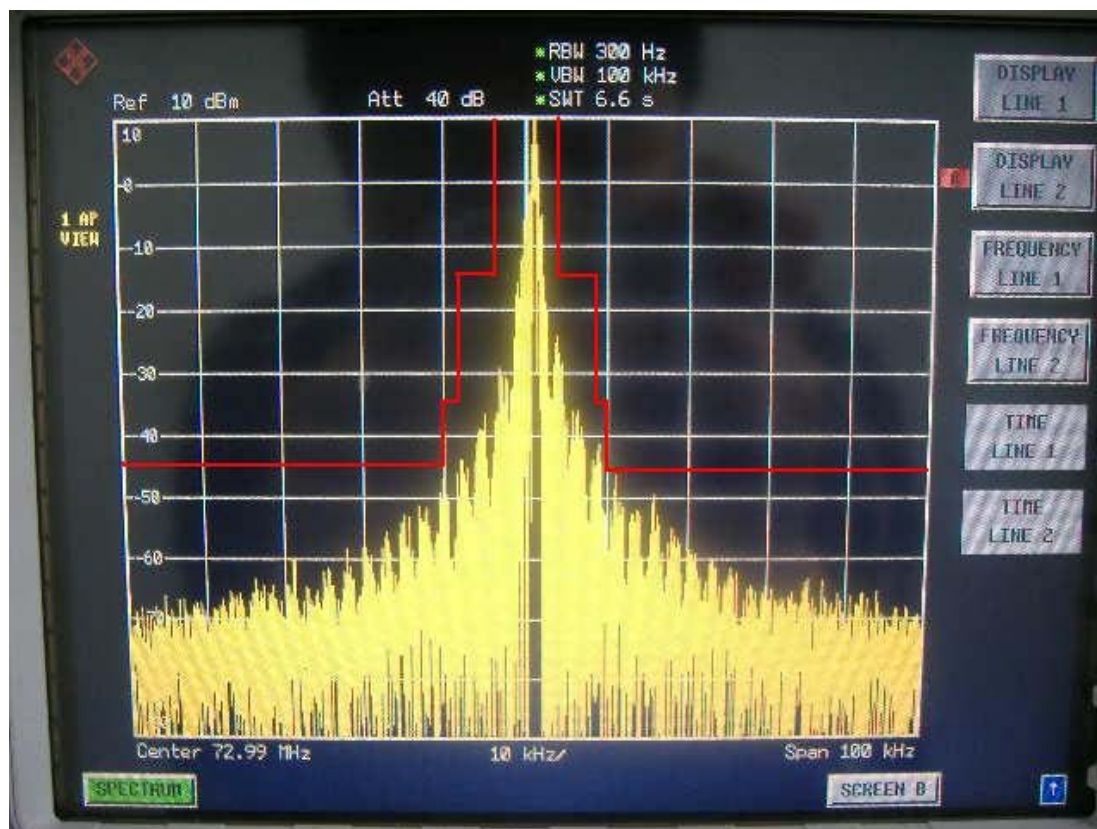
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Page 18 of 47



5ch Radio

Frequency of crystal: 72.11 MHz

FCC ID: TNG05TRA02



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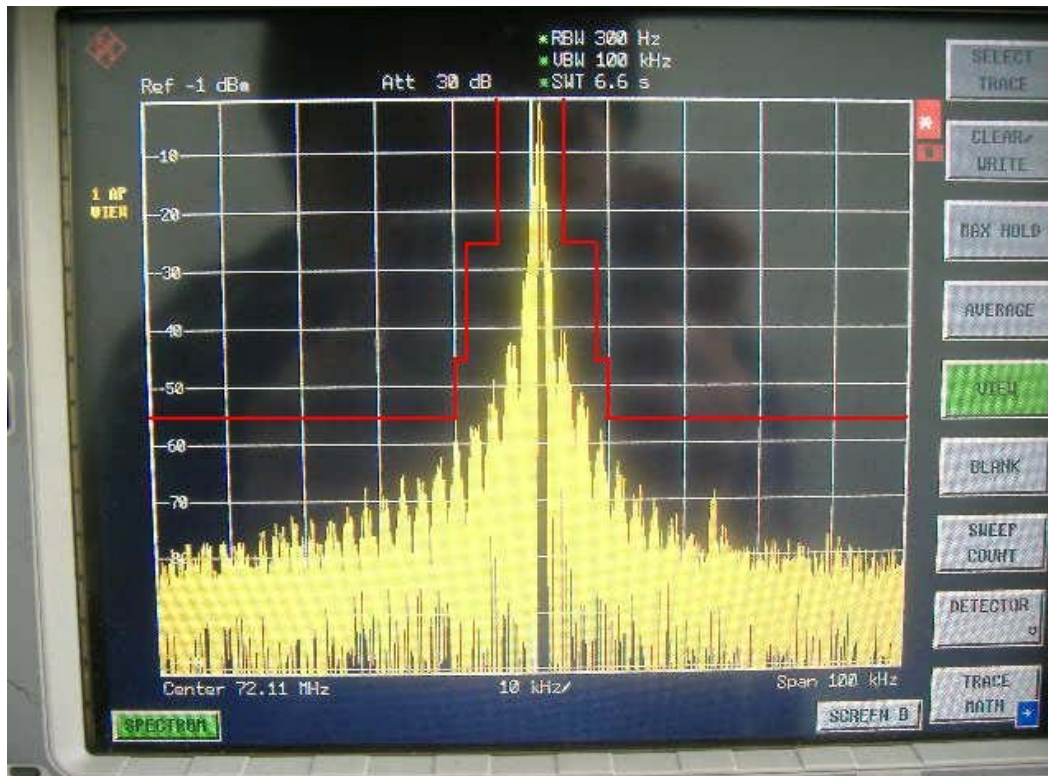
Telephone: +86 (0) 21 6495 1616

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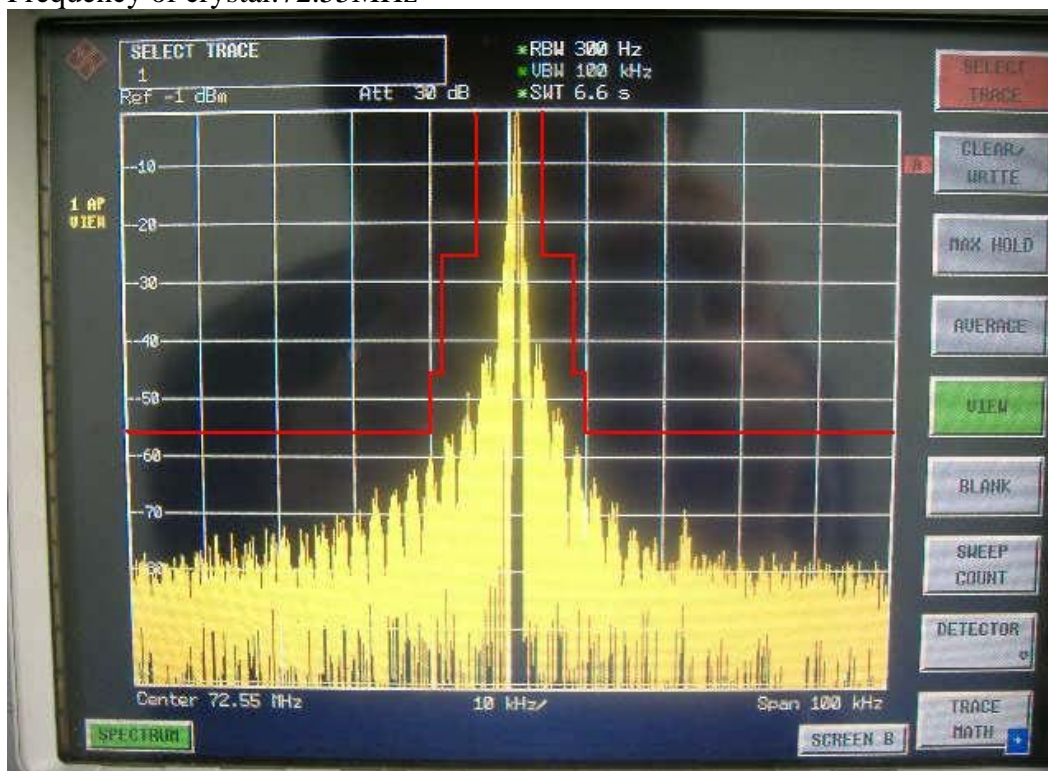
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Page 19 of 47



Frequency of crystal:72.55MHz



Frequency of crystal:72.99MHz

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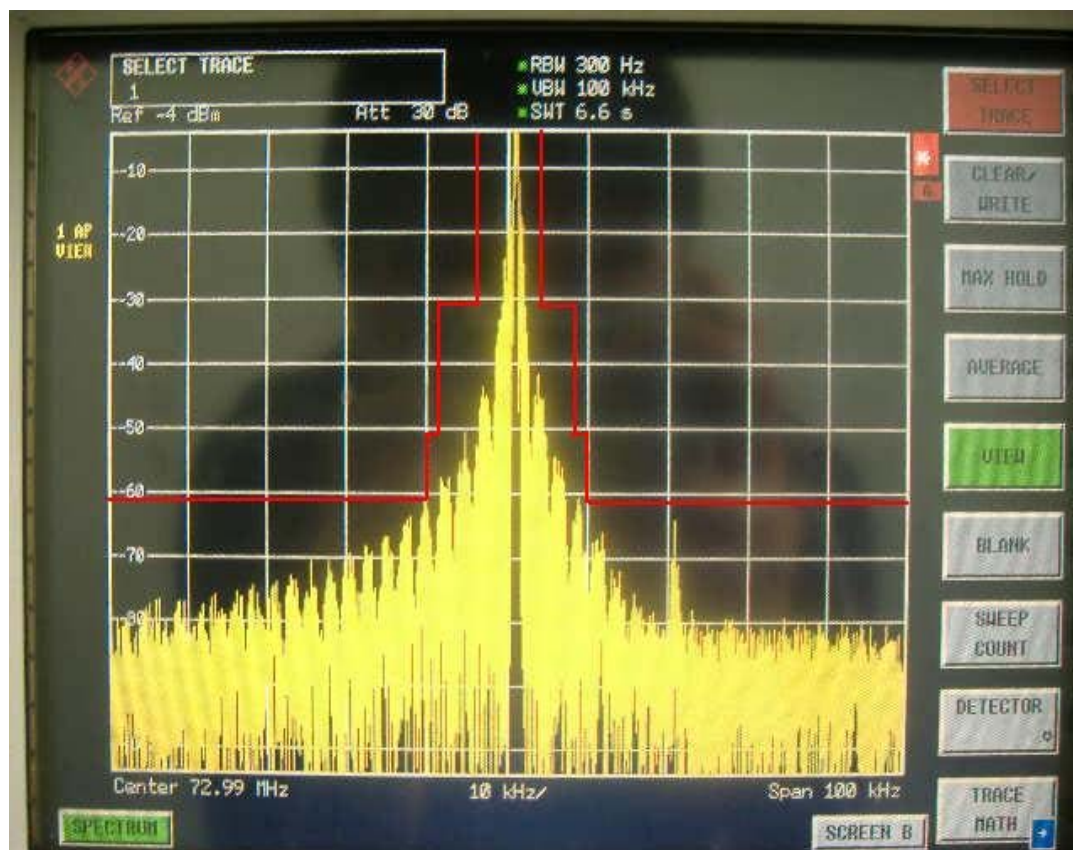
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Page 20 of 47



6ch Radio

Frequency of crystal: 72.11 MHz



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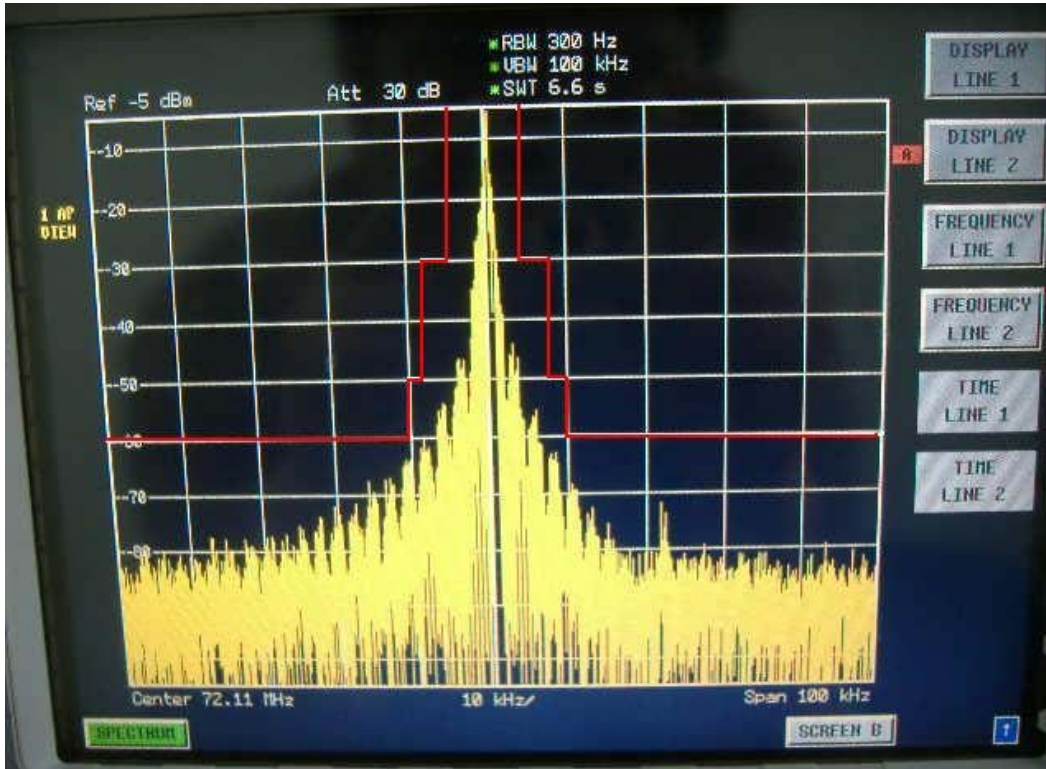
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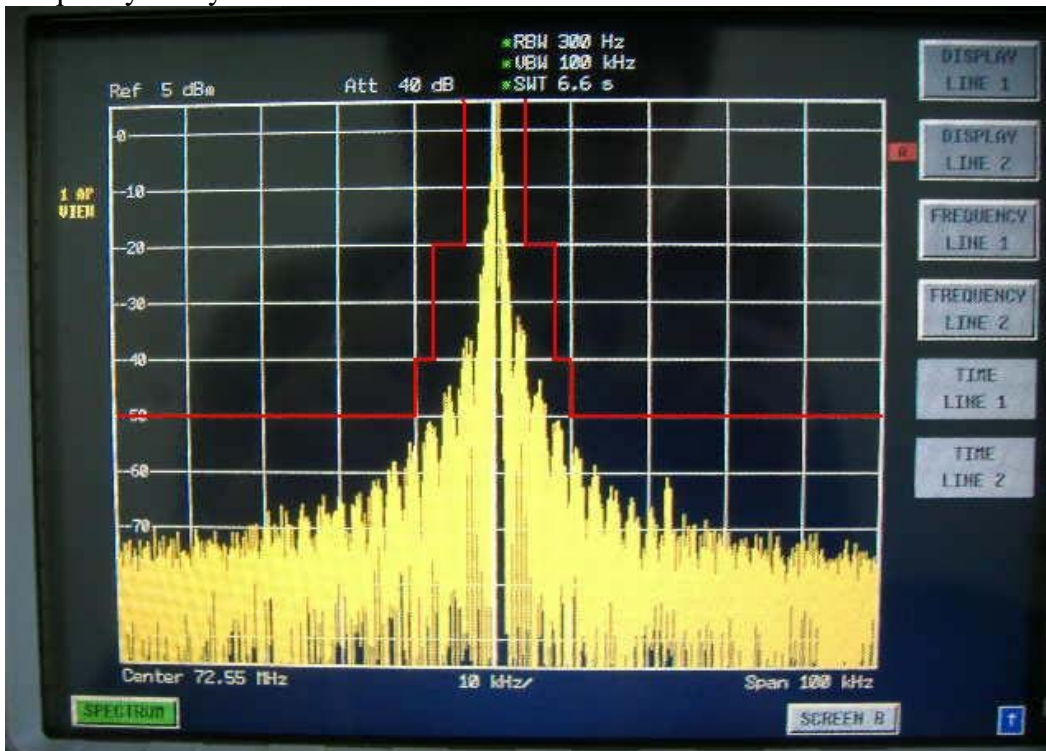
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Page 21 of 47



Frequency of crystal:72.55MHz



Frequency of crystal:72.99MHz

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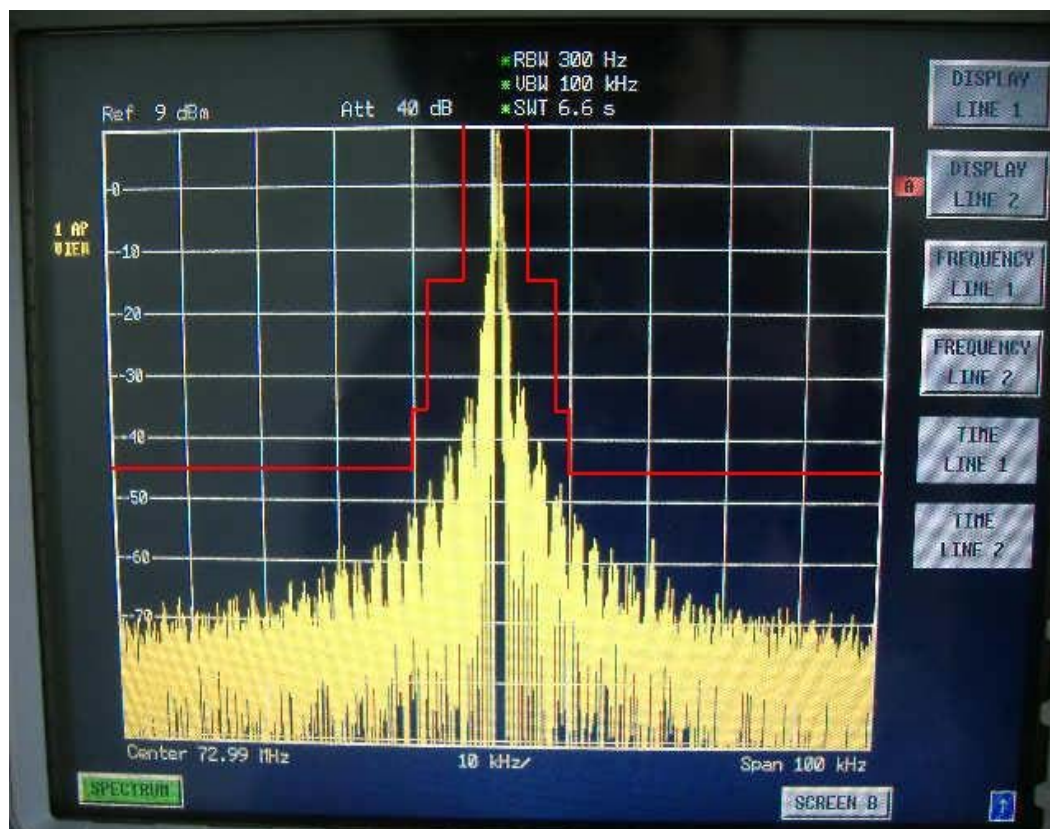
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Page 23 of 47

### 5.1.4 Unwanted Radiation

**Test Date:** 28 September 2005

**Test Method:** ANSI C63.4: 2003

**EUT Operation:**

Ambient: Temp.: 24 °C, Humid.: 56 % Press.: 1010 mBar

Status: 1) Test EUT in operation mode, 0.8m high above ground plane;

**Test Procedure:** Scan from 30M to 1GHz, find the maximum radiation frequency to measure.

#### 5.1.4.1 Requirements:

At least $56 + 10 \log_{10} (T)$ dB on any frequency removed from the center of the authorized bandwidth by more than 250%.
---

#### 4ch Radio

Frequency of crystal	Requirement
72.11MHz	$56 + 10 \log_{10} (0.0000056) = 3.5\text{dB}$
72.55MHz	$56 + 10 \log_{10} (0.000059) = 13.7\text{dB}$
72.99MHz	$56 + 10 \log_{10} (0.0003) = 20.8\text{dB}$

#### 5ch Radio

Frequency of crystal	Requirement
72.11MHz	$56 + 10 \log_{10} (0.00003) = 10.8\text{dB}$
72.55MHz	$56 + 10 \log_{10} (0.000025) = 10\text{dB}$
72.99MHz	$56 + 10 \log_{10} (0.000017) = 8.4\text{dB}$

#### 6ch Radio

Frequency of crystal	Requirement
72.11MHz	$56 + 10 \log_{10} (0.0000093) = 5.7\text{dB}$
72.55MHz	$56 + 10 \log_{10} (0.000059) = 13.7\text{dB}$
72.99MHz	$56 + 10 \log_{10} (0.0001) = 16.2\text{dB}$

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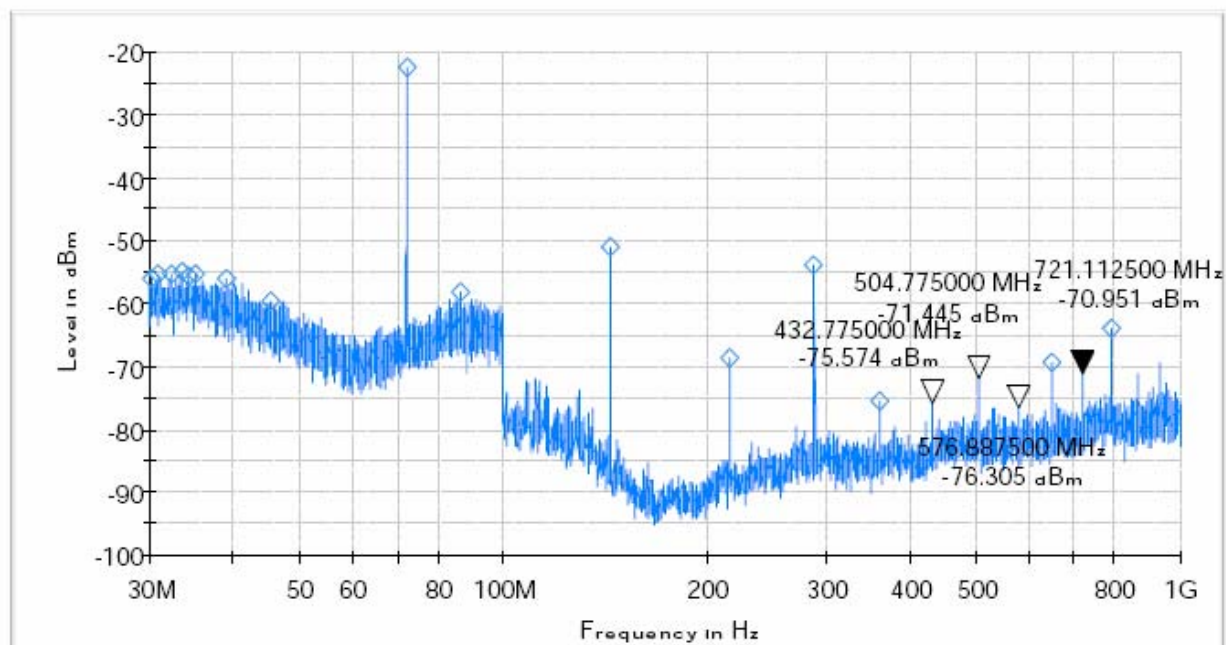
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## 5.1.4.2 Measurement Record:

Uncertainty:  $\pm 3\text{dB}$

4ch Radio			
Frequency of crystal: 72.11MHz			
Emission Frequency(MHz)	Polarity Antenna	Level(dBm)	dB Below Carrier(dBc)
72.113750	V	-22.50	0.00
144.212500	V	-51.10	28.60
216.325000	V	-68.50	46.00
288.437500	V	-53.90	31.40
360.550000	V	-75.40	52.90
432.775000	V	-75.57	53.07
504.775000	V	-71.45	48.95
576.887500	V	-76.31	53.81
649.112500	V	-69.40	46.90
721.112500	V	-70.95	48.45



Preview Measurement Detector 1    Data Reduction Detector 1 [1]



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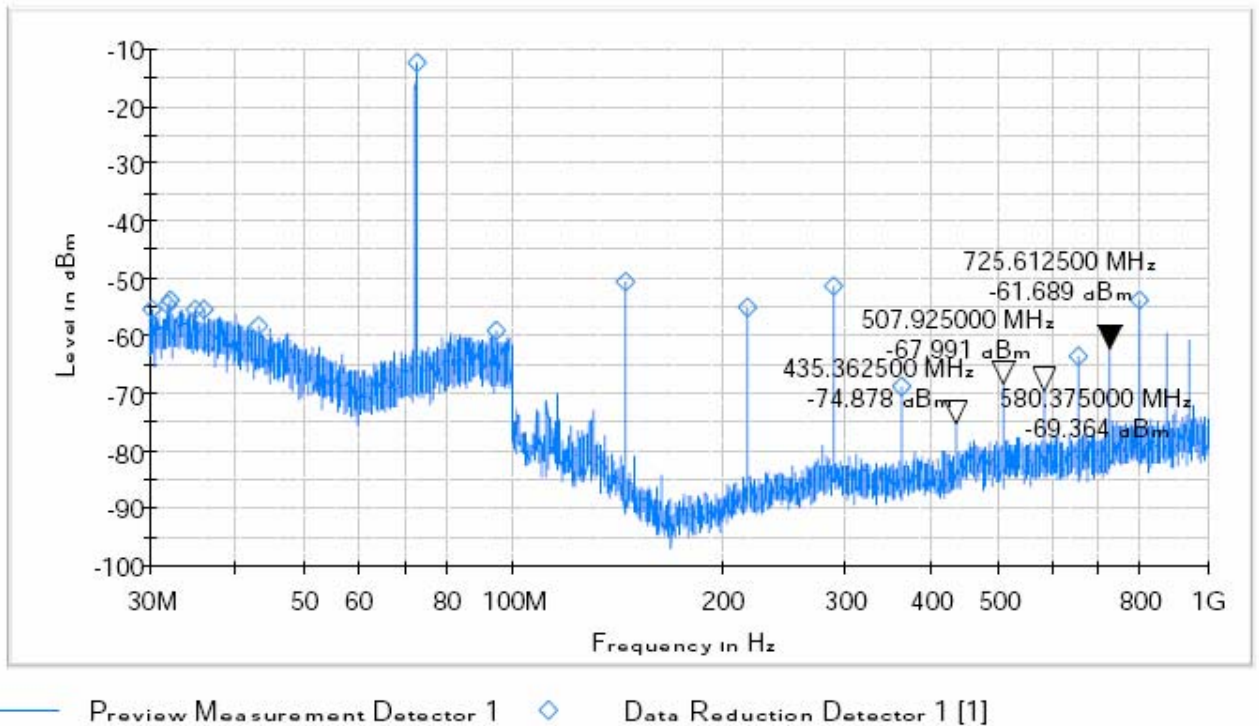
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Page 25 of 47

## Frequency of crystal: 72.55MHz

Emission Frequency(MHz)	Polarity Antenna	Level(dBm)	dB Below Carrier(dBc)
72.551250	V	-12.30	0.00
145.112500	V	-50.40	38.10
217.675000	V	-55.10	42.80
290.237500	V	-51.30	39.00
362.687500	V	-69.00	56.70
435.362500	V	-74.88	62.58
507.925000	V	-67.99	55.69
580.375000	V	-69.36	57.06
652.937500	V	-63.60	51.30
725.612500	V	-61.69	49.39



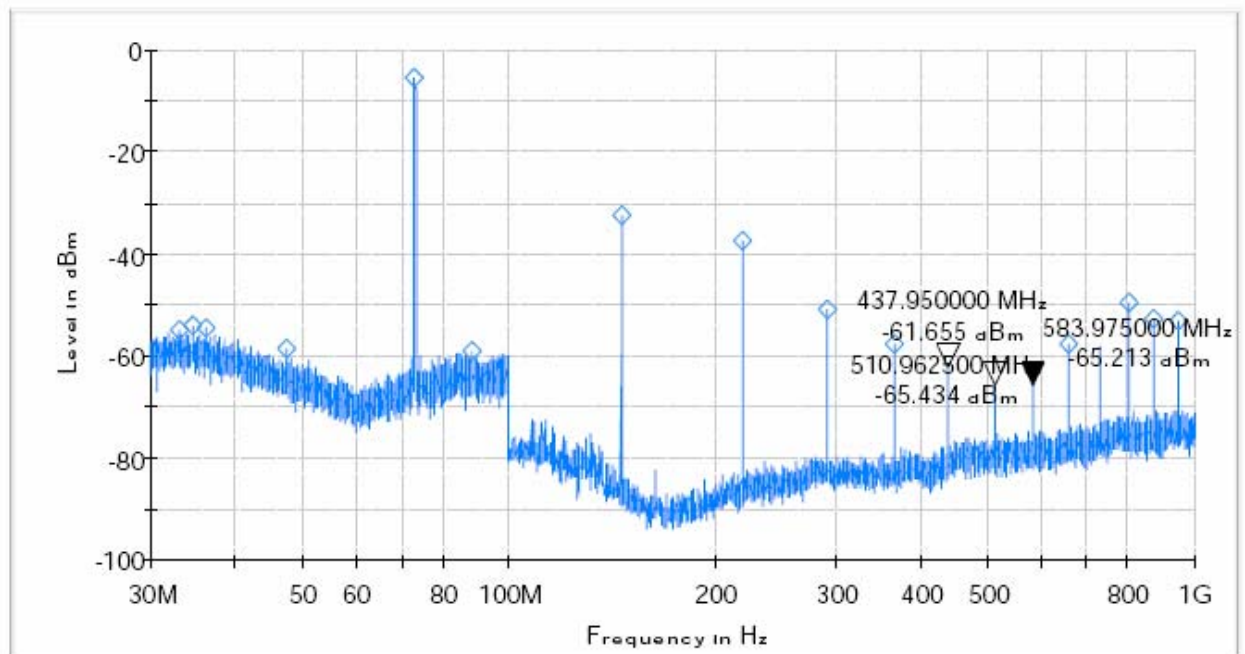
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Page 26 of 47

Frequency of crystal: 72.99MHz			
Emission Frequency(MHz)	Polarity Antenna	Level(dBm)	dB Below Carrier(dBc)
72.997500	V	-5.2	0.00
145.900000	V	-32.30	27.10
218.912500	V	-37.20	32.00
291.925000	V	-50.90	45.70
364.937500	V	-57.90	52.70
437.950000	V	-61.66	56.46
510.962500	V	-65.43	60.23
583.975000	V	-65.21	60.01
656.987500	V	-57.70	52.50
730.000000	V	-58.62	53.42



Preview Measurement Detector 1    Data Reduction Detector 1 [1]

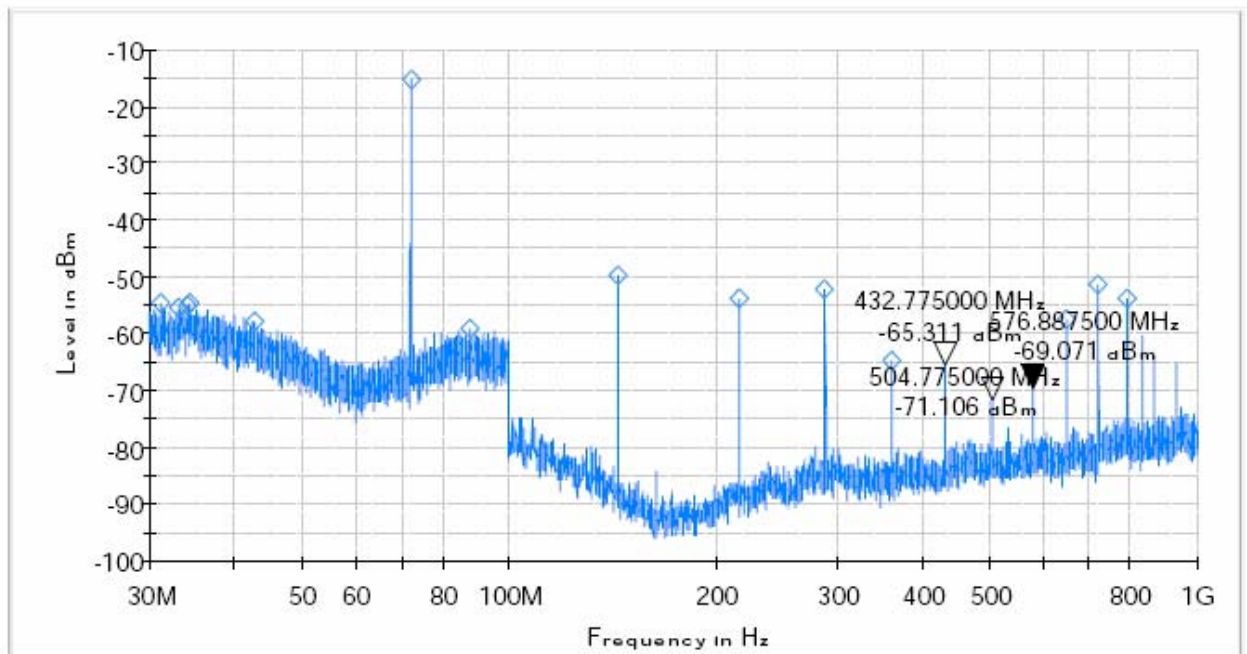
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Page 27 of 47

5ch Radio			
Frequency of crystal: 72.11MHz			
Emission Frequency(MHz)	Polarity Antenna	Level(dBm)	dB Below Carrier(dBc)
72.113750	V	-15.20	0.00
144.212500	V	-49.90	34.70
216.325000	V	-53.90	38.70
288.437500	V	-52.30	37.10
360.550000	V	-64.70	49.50
432.775000	V	-65.31	50.11
504.775000	V	-71.11	55.91
576.887500	V	-69.07	53.87
649.112500	V	-57.50	42.30
721.225000	V	-51.30	36.10



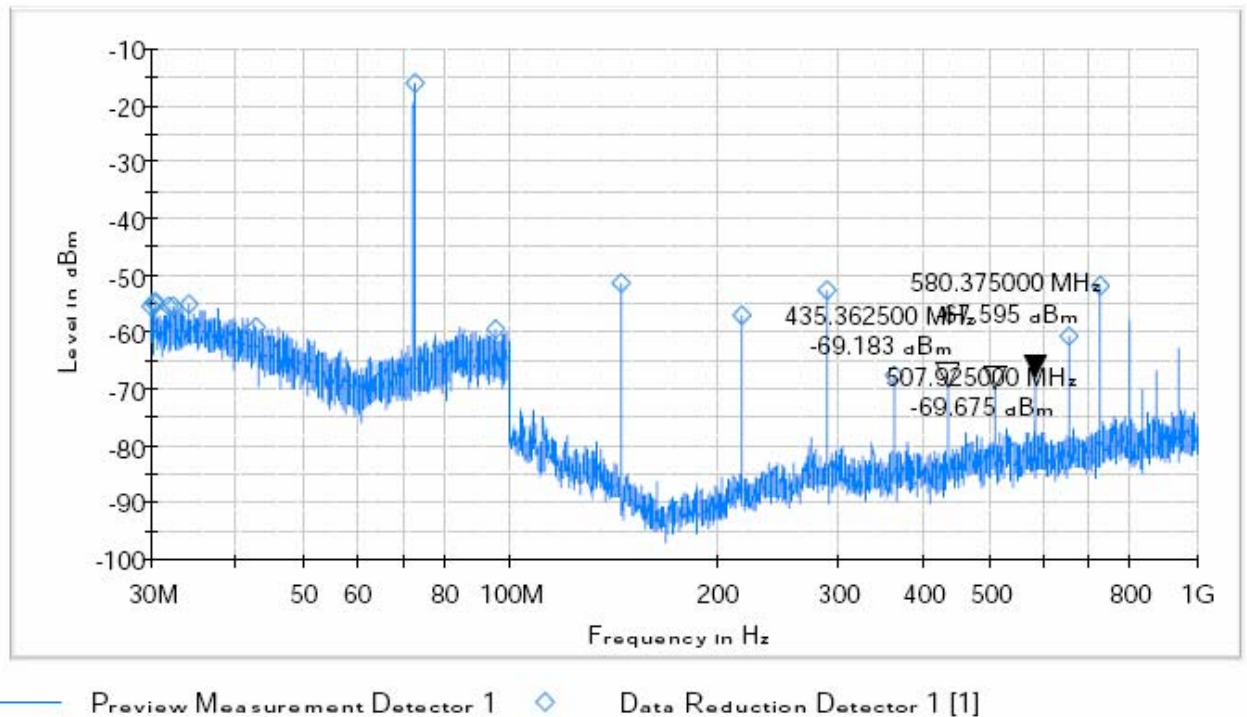
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Page 28 of 47

Frequency of crystal: 72.55MHz			
Emission Frequency(MHz)	Polarity Antenna	Level(dBm)	dB Below Carrier(dBc)
72.551250	V	-16.00	0.00
145.112500	V	-51.50	35.50
217.675000	V	-57.00	41.00
290.237500	V	-52.80	36.80
362.687500	V	-67.70	51.70
435.362500	V	-69.18	53.18
507.925000	V	-69.68	53.68
580.375000	V	-67.60	51.60
652.937500	V	-60.80	44.80
725.612500	V	-51.90	35.90



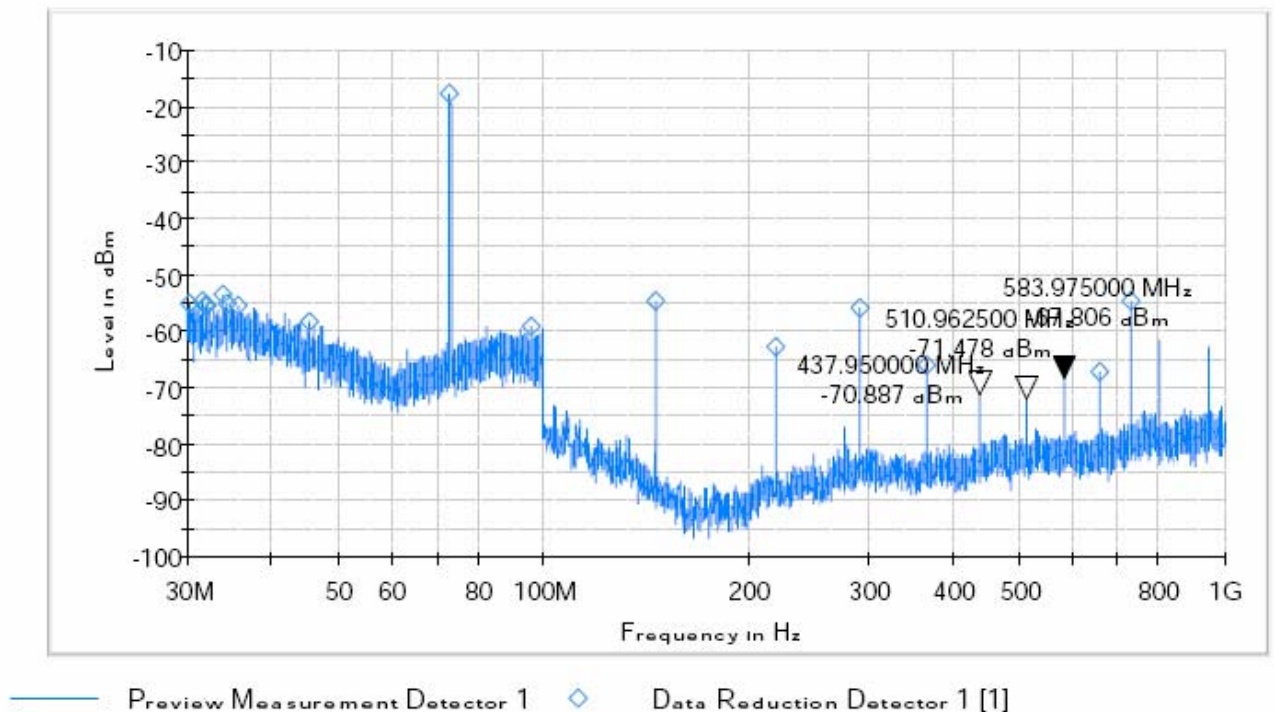
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Frequency of crystal: 72.99MHz			
Emission Frequency(MHz)	Polarity Antenna	Level(dBm)	dB Below Carrier(dBc)
72.997500	V	-17.60	0.00
145.900000	V	-54.70	37.10
218.912500	V	-62.80	45.20
291.925000	V	-55.80	38.20
364.937500	V	-65.90	48.30
437.950000	V	-70.89	53.29
510.962500	V	-71.48	53.88
583.975000	V	-67.81	50.21
656.987500	V	-67.00	49.40
730.000000	V	-54.70	37.10



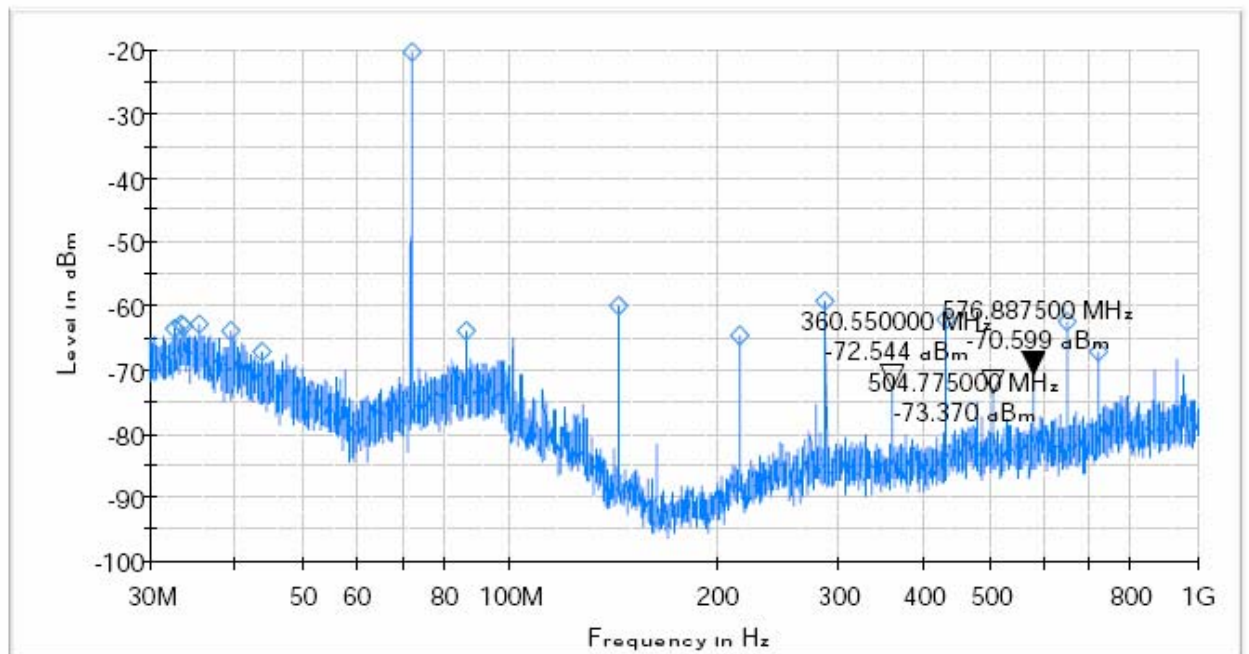
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6ch Radio			
Frequency of crystal: 72.11MHz			
Emission Frequency(MHz)	Polarity Antenna	Level(dBm)	dB Below Carrier(dBc)
72.113750	V	-20.30	0.00
144.212500	V	-60.00	39.70
216.325000	V	-64.80	44.50
288.437500	V	-59.20	38.90
360.550000	V	-72.54	52.24
432.775000	V	-62.10	41.80
504.775000	V	-73.37	53.07
576.887500	V	-70.60	50.30
649.112500	V	-62.40	42.10
721.225000	V	-67.20	46.90



Preview Measurement Detector 1    Data Reduction Detector 1 [1]



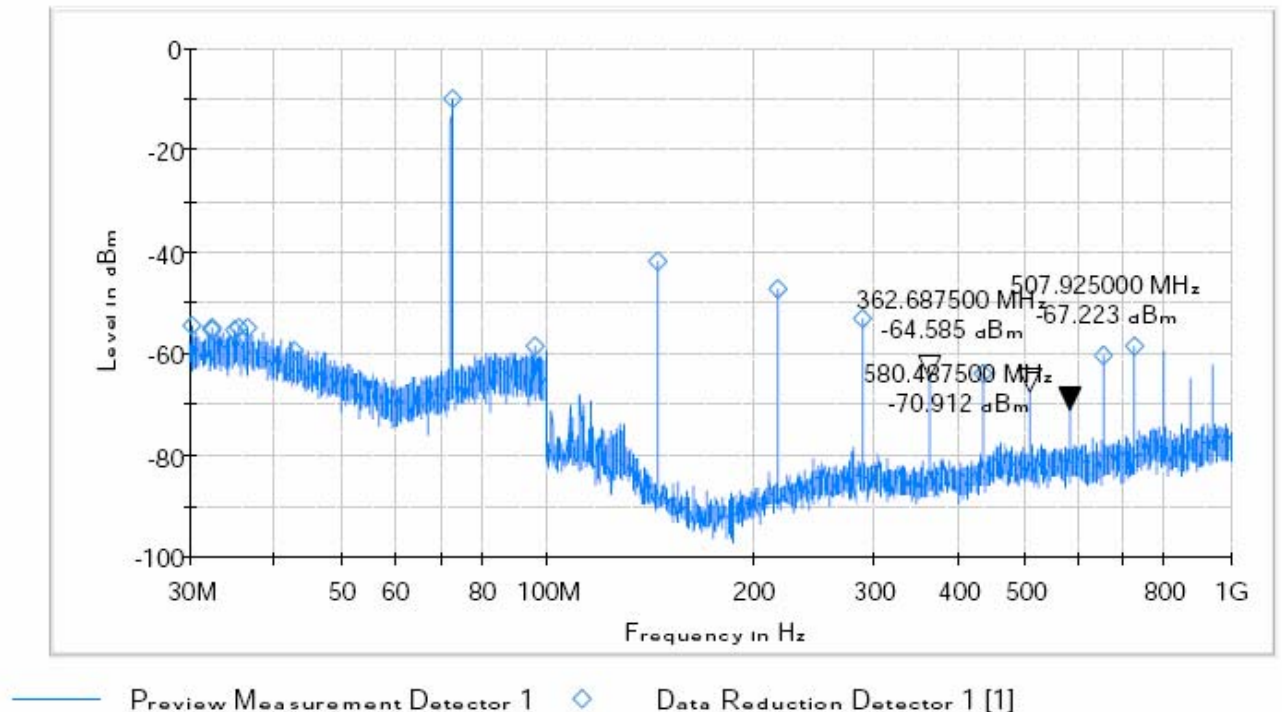
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Frequency of crystal: 72.55MHz			
Emission Frequency(MHz)	Polarity Antenna	Level(dBm)	dB Below Carrier(dBc)
72.551250	V	-9.80	0.00
145.112500	V	-41.70	31.90
217.675000	V	-47.20	37.40
290.237500	V	-53.00	43.20
362.687500	V	-64.59	54.79
435.362500	V	-63.90	54.10
507.925000	V	-67.22	57.42
580.375000	V	-70.91	61.11
652.937500	V	-60.30	50.50
725.612500	V	-58.40	48.60



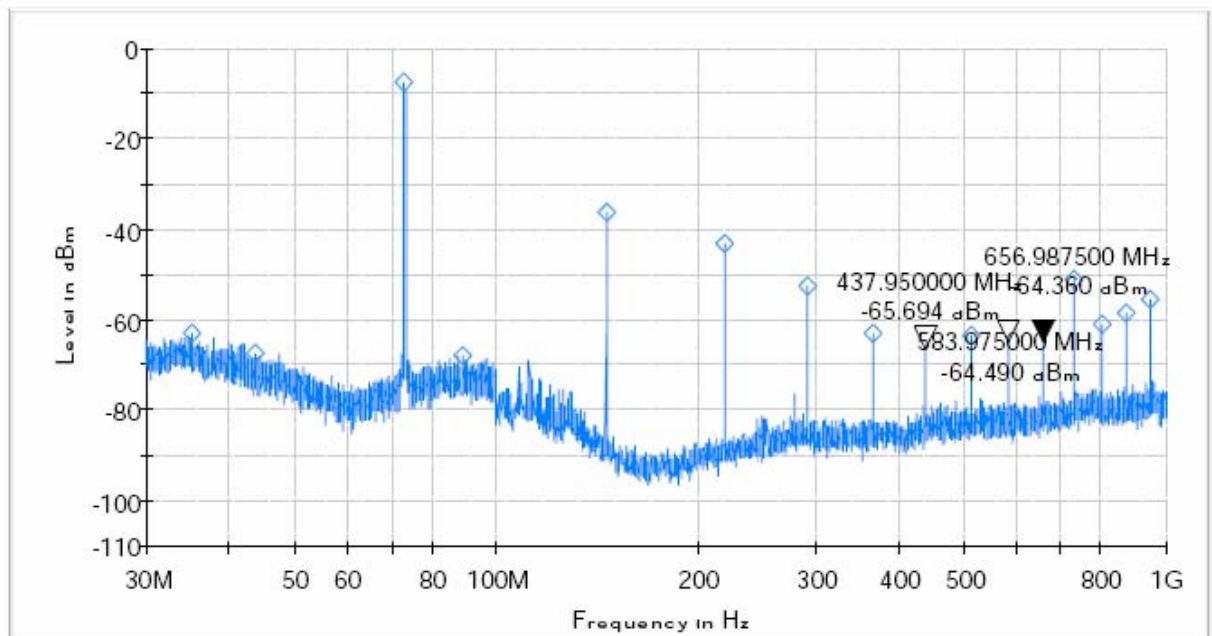
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Page 32 of 47

Frequency of crystal: 72.99MHz			
Emission Frequency(MHz)	Polarity Antenna	Level(dBm)	dB Below Carrier(dBc)
72.997500	V	-7.30	0.00
145.900000	V	-36.20	28.90
218.912500	V	-43.20	35.90
291.925000	V	-52.30	45.00
364.937500	V	-62.90	55.60
437.950000	V	-65.70	58.40
510.962500	V	-63.40	56.10
583.975000	V	-64.50	57.20
656.987500	V	-64.36	57.06
730.000000	V	-51.10	43.80





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Page 33 of 47

### 5.2 Photographs

Frequency stability



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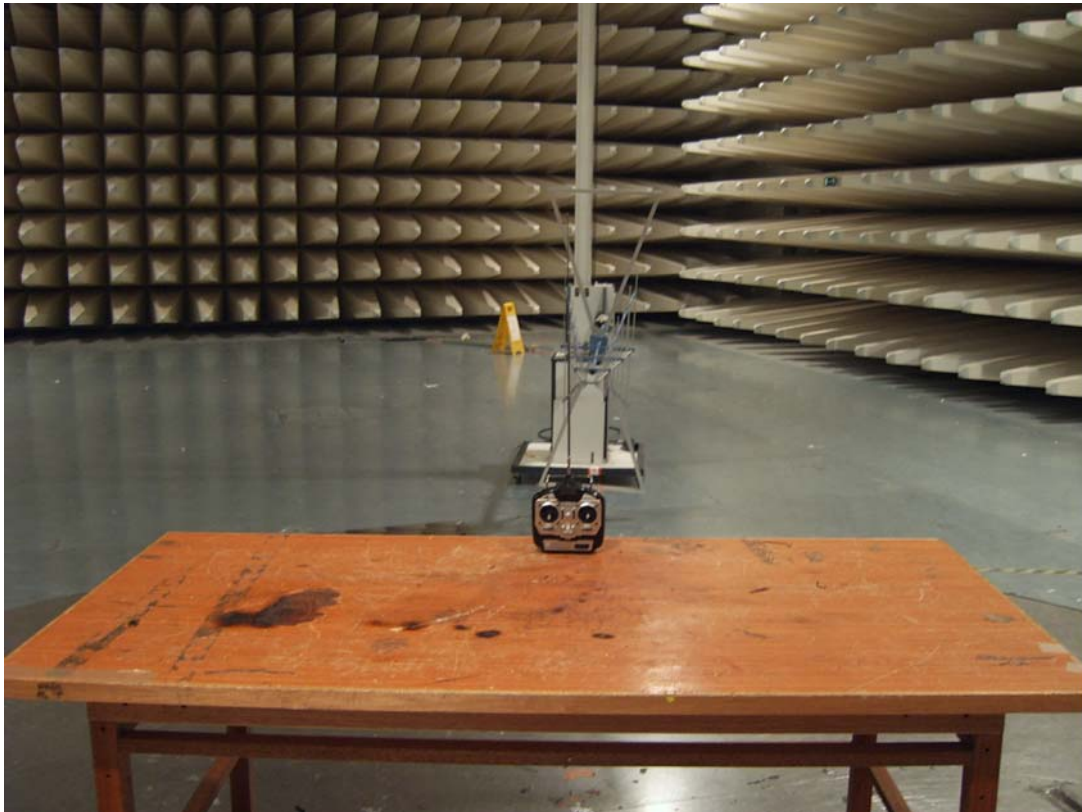
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Page 34 of 47

**Effective Radiated Power & Occupied bandwidth & Unwanted Radiation**



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Page 35 of 47

**EUT Constructional Details**

**4ch Radio**



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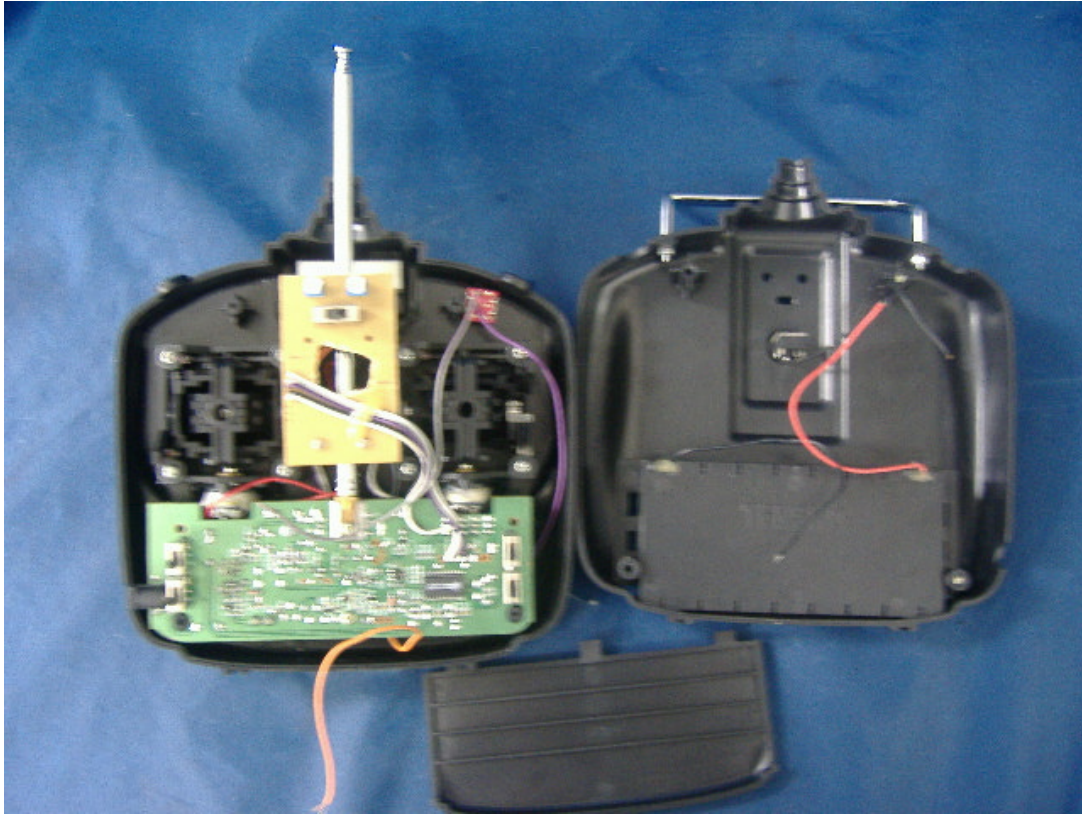
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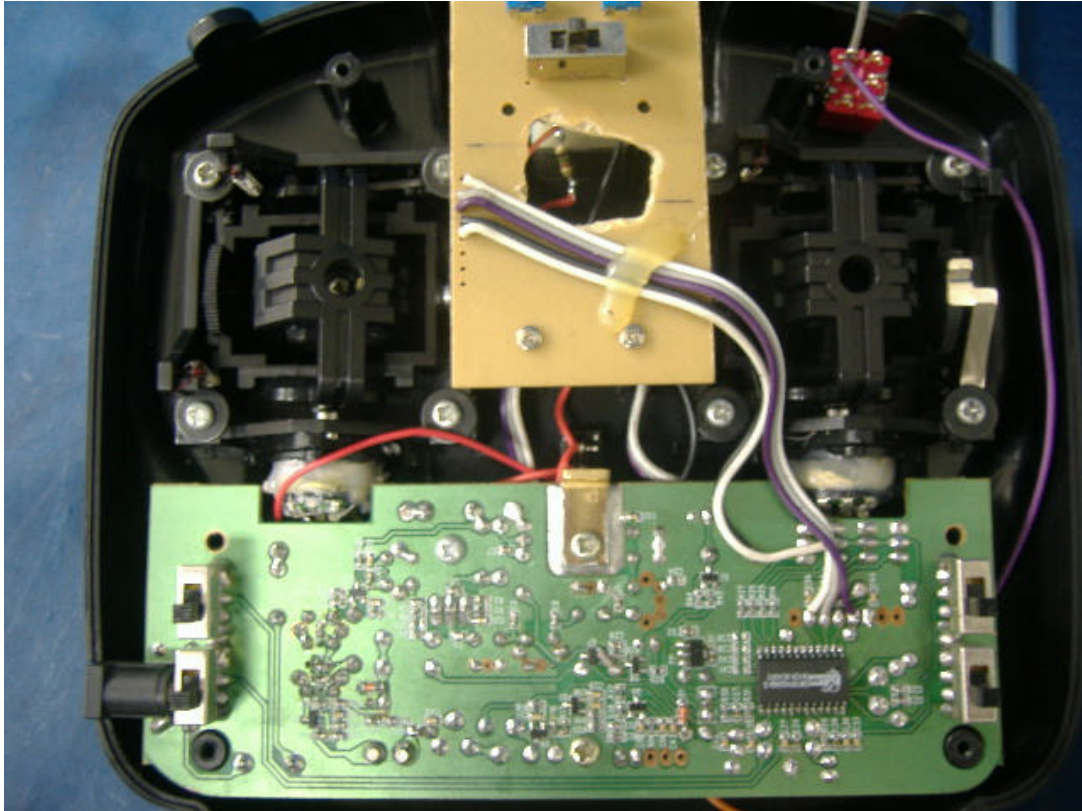
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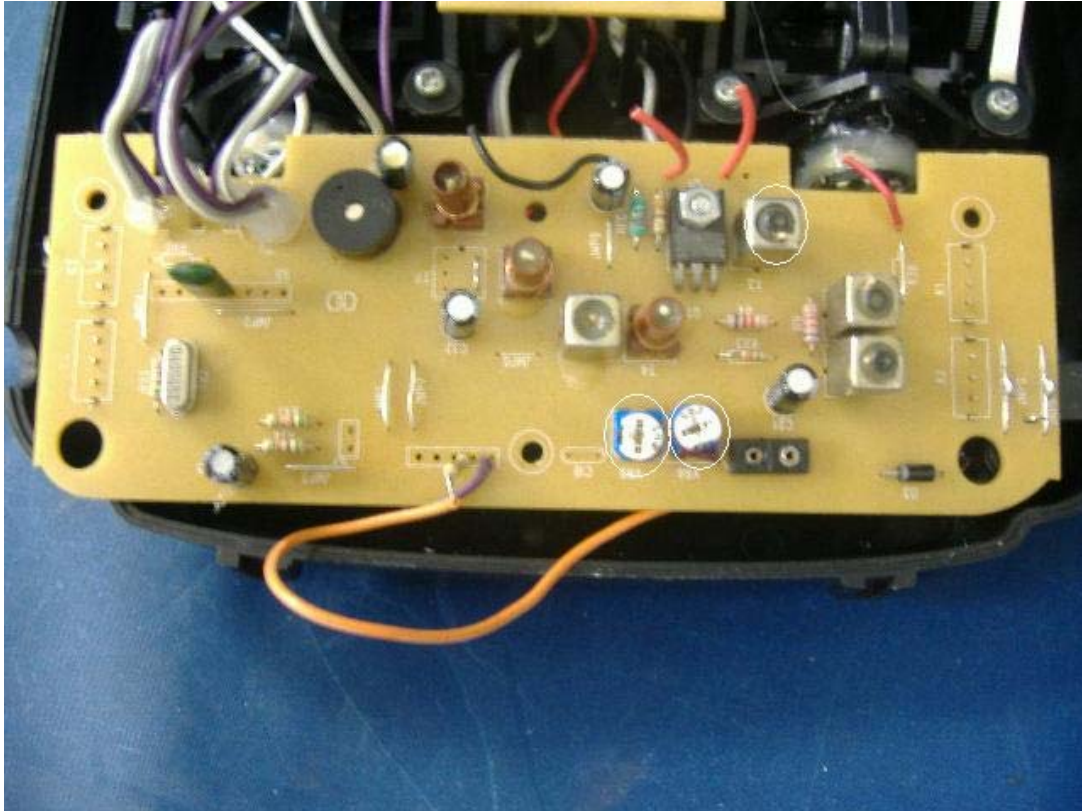
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Page 39 of 47

**5ch Radio**



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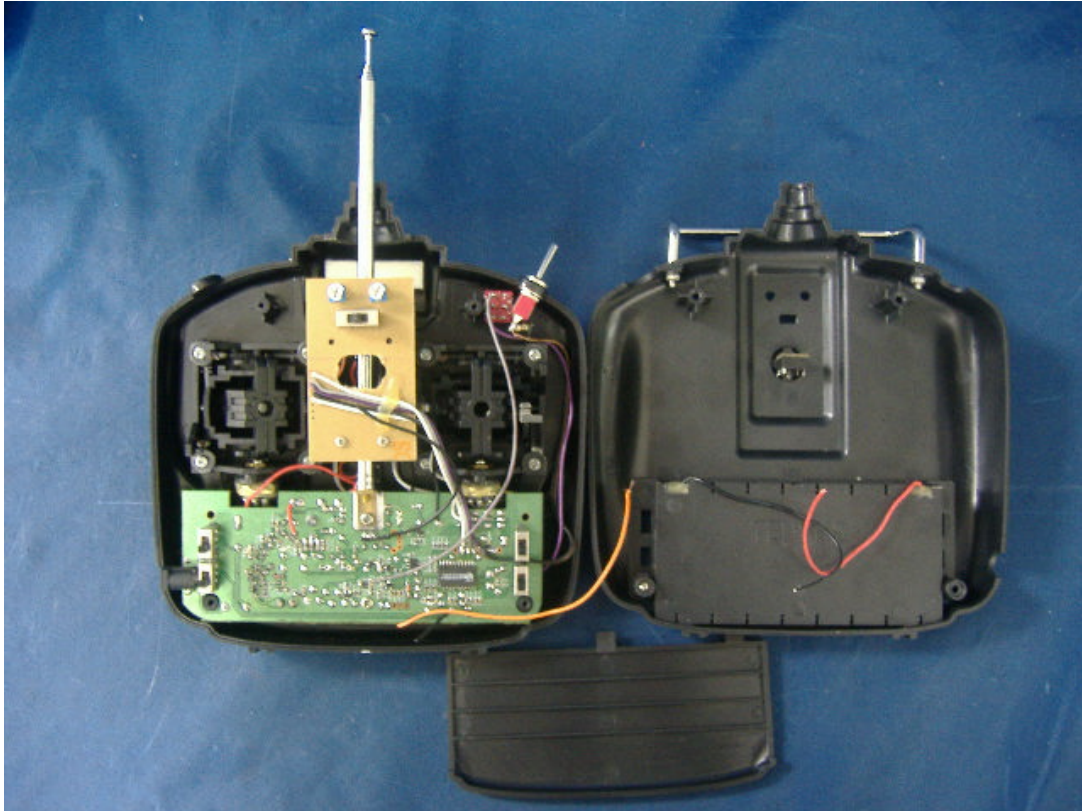
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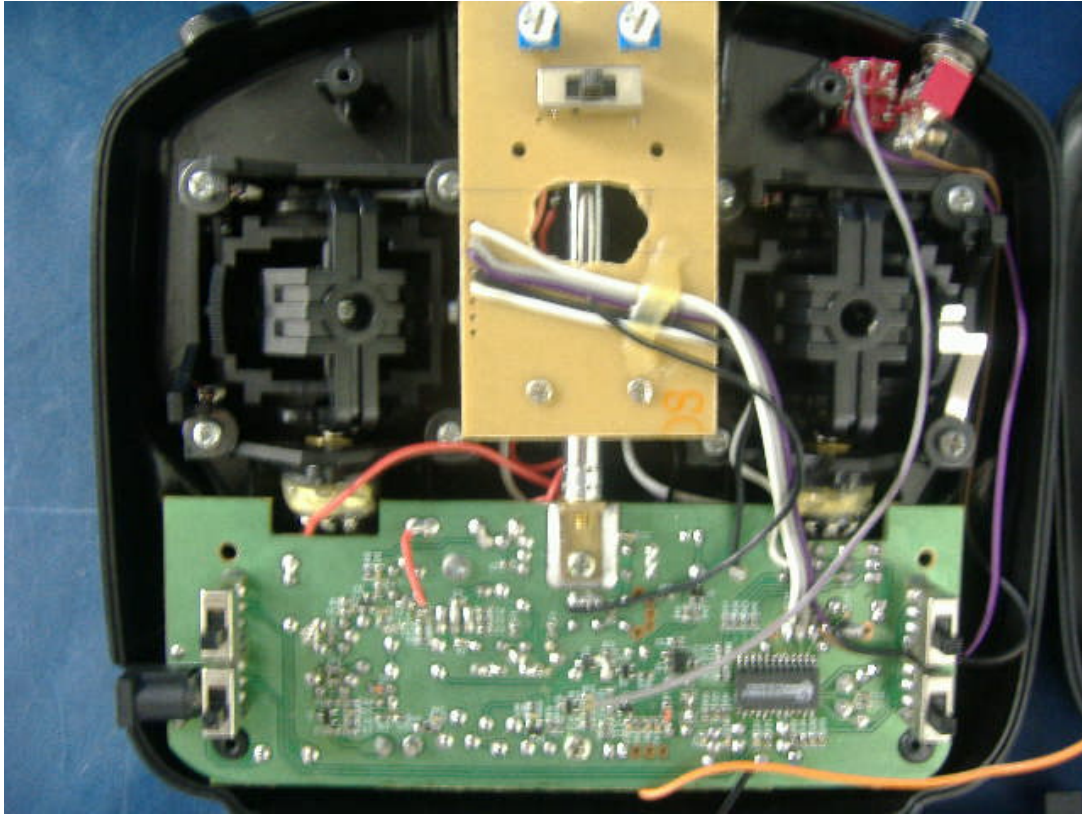
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Page 41 of 47



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Report No.: SHEMO050800377RFR

Page 42 of 47



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Report No.: SHEMO050800377RFR

Page 43 of 47

**6ch Radio**



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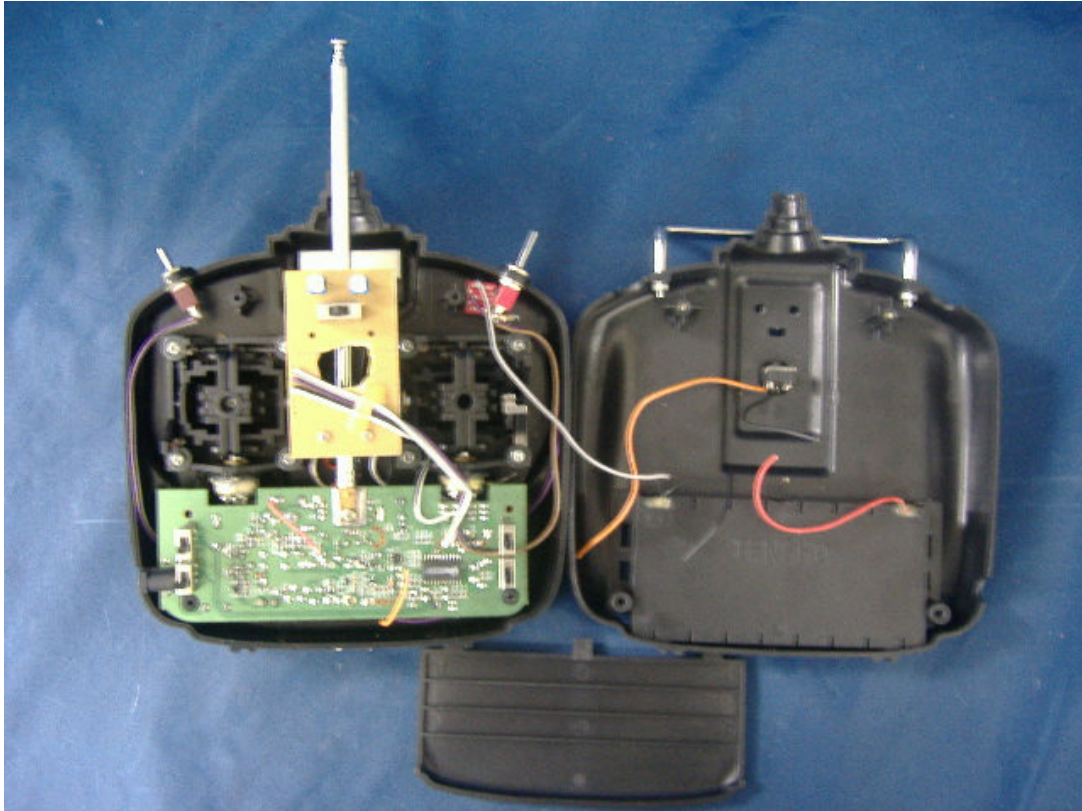
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Report No.: SHEMO050800377RFR

Page 44 of 47





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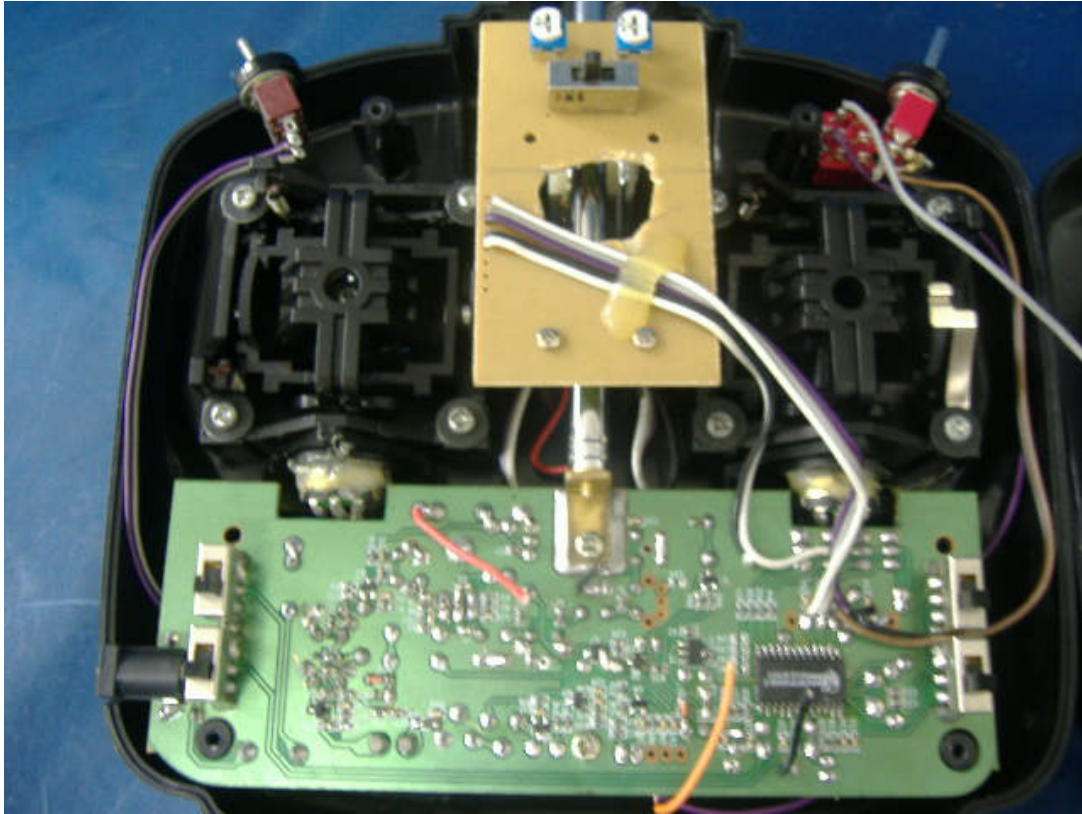
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Report No.: SHEMO050800377RFR

Page 45 of 47



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Page 46 of 47



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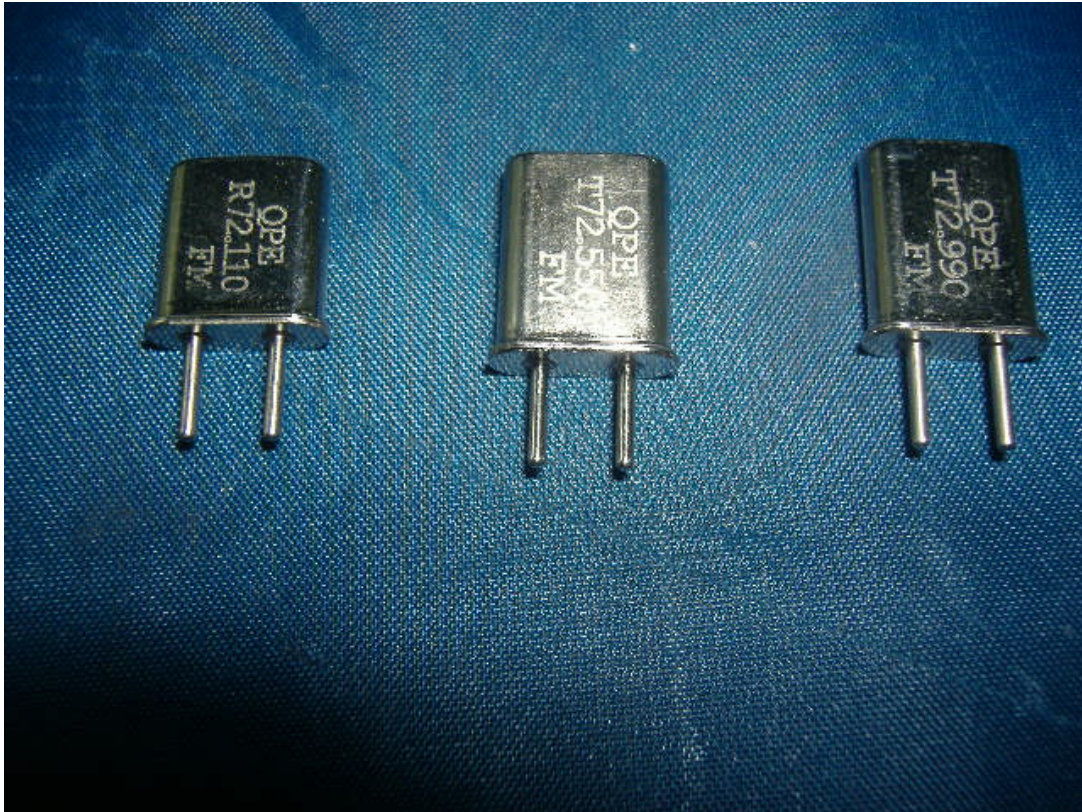
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Report No.: SHEMO050800377RFR

Page 47 of 47

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