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A				30/07/06	D. Lanuel	S. Cohen

EMC Laboraory

TRXL-720-2

**Manufactured by
Elmotech System Ltd.**

EMC Test Report

According to FCC Part 15.231

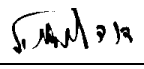
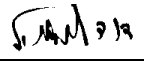
	Fonction/Title	Name	Signature	Date
Prepared by:	Test Engineer	D. Lanuel		30/07/06
Checked by:	Test Engineer	D. Lanuel		30/07/06
Approved By:	EMC Lab. Manager	S. Cohen		30/07/06

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1. ADMINISTRATIVE DATA**1.1. Scope**

This document describes the measurement procedures and tests for Radiated and conducted emission testing of the TRXL-720-2 Manufactured by Elmotech System Ltd..

2. GENERAL INFORMATION**2.1. Description of equipment Under Test**

Equipment Under Test:	TRXL-720-2
FCCID	LSQ- TRXL-720-2
Manufacturer:	Elmotech System Ltd
Serial Numbers:	63553
Mode of Operation:	Transceiver MODE
Receiver operating frequency:	433.92MHZ
Year of Manufacture:	2006

2.2. Applicant Information:

Applicant:	Elmotech System Ltd
Applicant Address	2, Habarzel Street Tel-Aviv
Telephone:	+972-3-6478871
FAX:	+972-3-6478872
The testing was observed by:	LEV ROSMAN

2.3. Test Performance:

Date of reception for testing:	12.07.06
Dates of testing	13.07.06
Test Laboratory Location	TADIRAN EMC LAB , Hashoftim 26 Holon 58102 ISRAEL Tel: 972-3-5574476 Fax: 972-3-5575320
Applicable EMC Specification:	Federal Communication Commission (FCC),

FCC Part 15: Radio Frequency Devices,
Sections 15.109, 15.209 &
15.231.15.207

3. TEST SUMMARY AND SIGNATURES.

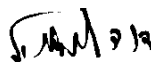
TADIRAN EMC Laboratory has completed testing of E.U.T in accordance with the requirements of the FCC Part 15 Regulations for Class B equipment.

The E.U.T was found to comply with the requirements of the FCC Part 15 Regulations given below

Test	Test Description	Section	PASS/FAIL
1	Bandwidth of the emission	15.231	PASS
2	Field strength of fundamental	15.231	PASS
4	Radiation emission	15.231 & 15.205	PASS
3	Radiation emission	15.109	PASS

Test performed by:

Mr. D. Lanuel Test Engineer



Test Report prepared by:

Mr. D. Lanuel Test Engineer



Test Report Approved by:

Mr. Samuel Cohen EMC Lab. Manager



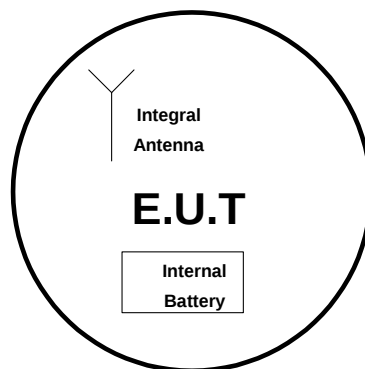
4. E.U.T INFORMATION

4.1. E.U.T description

The EUT is an Ankle watch which contain an integral transmitter. It is used to monitor offender status within an area covered by a local positioning system. The device in active mode transmits 5msec identification & status signal with interval to be a random time of 18-22sec

4.2. E.U.T Test Configuration

E.UT. test configuration is shown in figure bellow



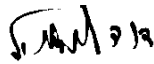
4.3. E.U.T Mode of Operation description

433.92MHz Transceiver operated by battery

5. BANDWIDTH OF THE EMISSION PART 15.231(C)

E.U.T: TRXL-720-2 S/N 63553
Test Method: ANSI 63.4
Date: 12/07/06
Relative Humidity: 42%
Ambient Temperature: 20°C
Air Pressure: 1039hpa
Test Setup: figure 1 and figure 6

Testing Engineer: D.Lanuel



Date 19/07/06

5.1. Test Results Summary & Conclusions

The E.U.T was found in compliance with Bandwidth of The emission fundamental frequency requirement

5.2. Limits of bandwidth

The test unit shall meet the limits of Table 1

Table/ 1 Limits For Bandwidth

Frequency (MHz)	Bandwidth Max Limits (%)	Bandwidth Max Limits (KHz)
433.92	0.25 of center frequency	1085

5.3. Test Instrumentation and Equipment

Table/ 2 Test Instrumentation and Equipment

Item	Model	Manufacturer	Next Date Calibration
Spectrum Analyzer	8593E	HP	31/01/07
Broadband Antenna	BTA-L	FRANKONIA	10.04.07

5.4. Results

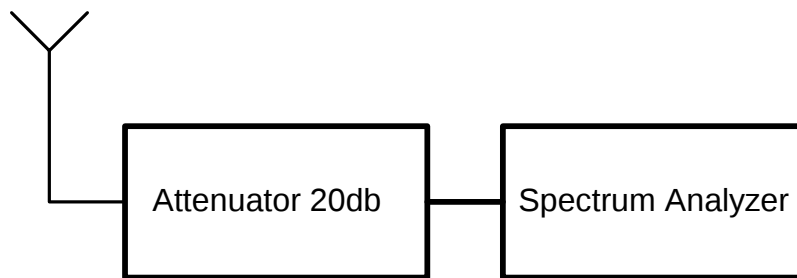
Table/ 3 Bandwidth Test Result

Frequency (MHz)	Bandwidth (KHz)	Bandwidth Max Limit (KHz)	Plot No	PASS/FAIL
433.92	132	1085	3	Pass

5.5. Procedure

The Bandwidth is determined at the point 20db down from the modulated carrier, while the spectrum analyzer was set to “max hold” and VBW –10KHz.

5.6. Test Setup

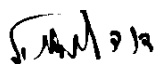


Figure/ 1 Measurement test setup

6. FIELD STRENGTH OF FUNDAMENTAL PART 15.231(B)

E.U.T: TRXL-720-2 S/N 63553
Test Method: ANSI 63.4
Date: 12/07/06
Relative Humidity: 42%
Ambient Temperature: 20C
Air Pressure: 1039hpa
Test Setup: figure 1 and figure 6

Testing Engineer: D.Lanuel



Date 19/07/06

6.1. Test Results Summary & Conclusions

The E.U.T was found in compliance with Field strength of fundamental requirement

6.2. Limits of Field Strength for fundamental according 15.231(b)

The test unit shall meet the limits of Table 4

Table/ 4 Limits For Fundamental

Frequency (MHz)	Average Max Limits (dB μ V/m)	Peak Max Limits (dB μ V/m)
433.92	81	101

6.3. Test Instrumentation and Equipment*Table/ 5 Test Instrumentation and Equipment*

Item	Model	Manufacturer	Next Date Calibration
Spectrum Analyzer	8593E	HP	31/01/07
Broadband Antenna	BTA-L	FRANKONIA	10.04.07

6.4. Test Results

Table/ 6 Average Factor

TX Period(min)	Duty Cycle (min)	Average Factor (db)	Plot Reference
6.6ms	$6.6/100=0.066$	$20\log 0.066=-23.60$	11,12

Table/ 7 Peak Result of Fundamental

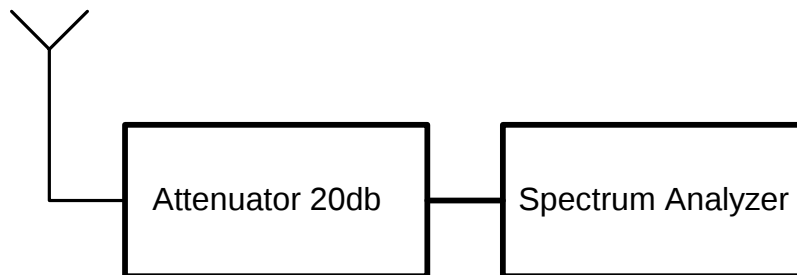
Frequency (MHz)	Peak Result (dB μ V/m)	Peak Limits (dB μ V/m)	Margin (DB)	Plot No	Pass/ Fail
433.916	96.6	101	4.4	4	Pass

Table/ 8 Average Result of Fundamental

Peak Result (dB μ V/m)	Average Factor	Calculation Results	Average Limits (dB μ V/m)	Margin (dB)	Pass/ Fail
96.6	-23.60	73	81	8	PASS

6.5. Test Procedure

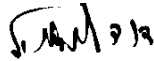
The EUT was placed on the top of rotating table 0.8 meters above the ground and the table was rotated 360°, the height of antenna is varied from one to 4 meters (vertical and horizontal polarization) to determine the max field strength of fundamental

6.6. Test Setup

Figure/ 2 Field strength of fundamental test setup

7. RADIATED EMISSION PART 15.231(B) & 15.205

E.U.T: TRXL-720-2 S/N 63553
Test Method: ANSI 63.4
Date: 12/07/06
Relative Humidity: 42%
Ambient Temperature: 20°C
Air Pressure: 1039hpa
Test Setup: figure 1 and figure 6

Testing Engineer: D.Lanuel**Date** 19/07/06**7.1. Test Results Summary & Conclusions**

The E.U.T was found in compliance with 15.231&15.205 requirements

7.2. Limits of Radiated Interference Field Strength according 15.231

The test unit shall meet the limits of Table 9.

Table/ 9 Limits For 15.231(b)

Frequency range(MHz)	Average Limits (dB μ V/m)	peak Limits (dB μ V/m)
0.009 – 3500	61	81

Table/ 10 Limits For 15.205

Note	Frequency range(MHz)	peak Limits (dB μ V/m) Distance 3meter
Restricted band	0.009 – 0.490	128 – 93.8
	0.490 – 1,705	73.8 - 63
	1.705 - 30	70
	30 - 88	40
	88 - 216	43.5
	216 - 960	46
	Above 960	53.9

7.3. Test Instrumentation and Equipment

Table/ 11 Test Instrumentation and Equipment

Item	Model	Manufacturer	Next Date Calibration
Spectrum Analyzer	8593E	HP	31/01/07
Rode Antenna(10KHz-30MHz)	95010-1	ETN	13.11.07
Double Ridge Guide Antenna(1-18GHz)	3105	EMCO	24.04.07
Broadband Antenna	BTA-L	FRANKONIA	10.04.07
Low Noise Amplifier (0-1GHz)	AM-1300-N	MITEQ	14.01.07
Low Noise Amplifier (1-2GHz)	SMC-09	MITEQ	14.01.07
Low Noise Amplifier (2-6GHz)	SMC-09	MITEQ	14.01.07

7.4. Preliminary Results

Table/ 12 Preliminary Test Results for intentional Emissions in TX Mode 15.231

Antenna Polarization	Freq. Range MHz	Res. BW (kHz)	Plot No.	PASS/FAIL
Both Hor.& Ver	0.009 – 0.15	0.2	5,6	Pass
	0.15 - 30	9	7,8	Pass
	30-1000	120	9	Pass
	1000-2.800	1000	10	Pass
	2.800-5000	1000	11	Pass

7.5. Final Results

Table/ 13 Six Highest Peak Emission Test Results

Freq. (MHz)	Peak Reading (*) (dBμV/m)	Limit dBμV/m	Margin (dB)	Pass/Fail
867.906	72.6	81	8.4	PASS
1301.648	49.3	54	4.7	PASS
2169.626	57.9	81	23.1	PASS
2603.435	49.2	81	31.8	PASS

*Restricted band

Table/ 14 Six Highest Average Emission Test Results

Freq. (MHz)	Calculated (dBμV/m)	Limit dBμV/m	Margin (dB)	Pass/Fail
867.906	49	61	12	Pass
1301.648	25.7	54	28.3	Pass
2169.626	34.3	61	26.7	Pass
2603.435	25.6	61	35.4	Pass

Average Emission Calculate: Peak value + Average Factor (-23.6)

7.6. Test Procedure

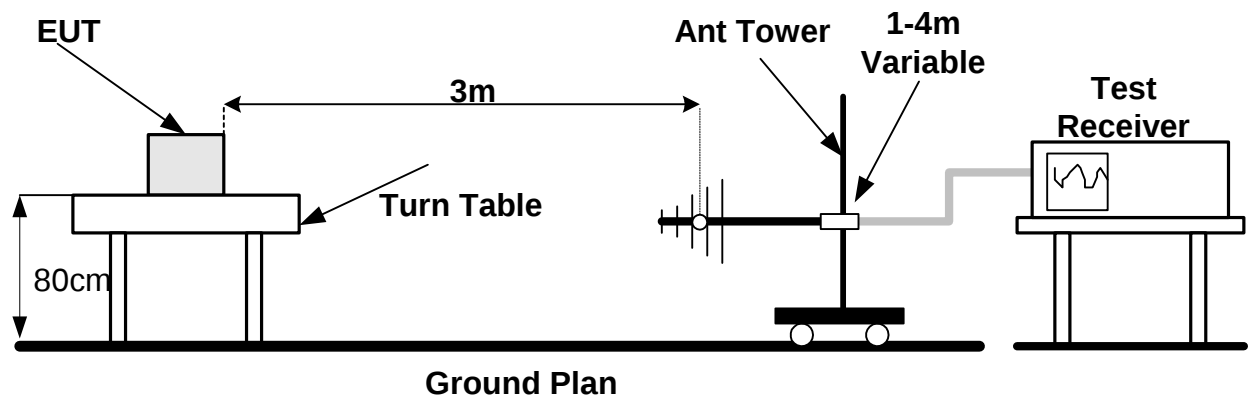
Preliminary Test Procedure

- 7.6.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a chamber shielded
- 7.6.2. The E.U.T was set 3 meters away from the receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 7.6.3. The Antenna height varied from one meter to 1.8 meters above the ground and the table was rotated 360° to determine the maximum value of the field strength
- 7.6.4. The antenna was set both horizontal and vertical polarization.

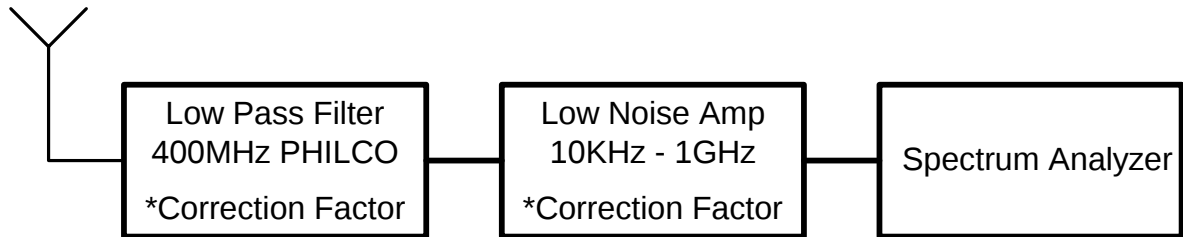
Final Test Procedure

- 7.6.5. The EUT was tested at open area for each suspected emission,
- 7.6.6. The test procedure was performed according paragraph d. but the Antenna height varied from one meter to four meters above the ground

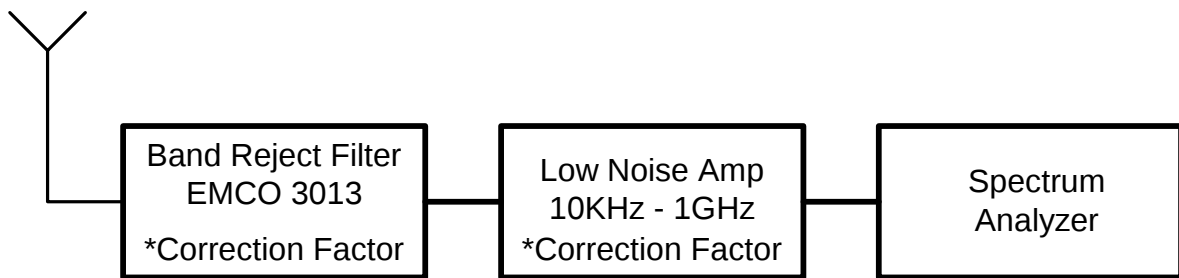
7.7. Final Test Setup



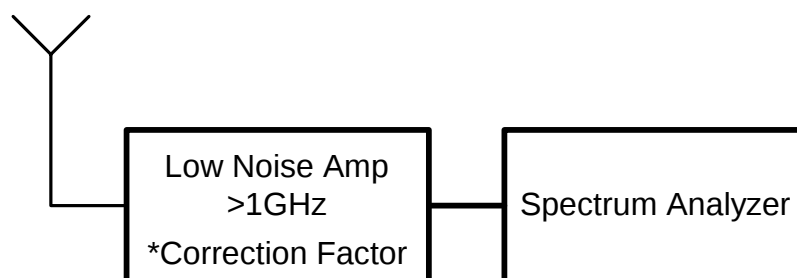
Figure/ 3 Radiated Emission Test Configuration



Figure/ 4 *Radiated Emission Measurement 10KHz – 400MHz*



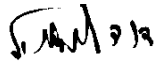
Figure/ 5 *Radiated Emission Measurement 400MHz – 1GHz*



Figure/ 6 *Radiated Emission Measurement above 1GHz*

8. RADIATED EMISSION PART 15.109- (FOR STBY MODE)

E.U.T: TRXL-720-2 S/N 63553
Test Method: ANSI 63.4
Date: 12/07/06
Relative Humidity: 42%
Ambient Temperature: 20°C
Air Pressure: 1039hpa
Test Setup: figure 1 and figure 6

Testing Engineer: D.Lanuel**Date** 19/07/06**8.1. Test Results Summary & Conclusions**

The E.U.T was found in compliance with 15.109 radiated emission requirements

8.2. Limits of Radiated Interference Field Strength according 15.109

The test unit shall meet the limits of Table 15 for Class B equipment.

Table/ 15 Limits For 15.109 Class B equipment

Frequency Range (MHz)	Quasi-peak Limits (dBμV/m)
30 - 88	40
88 - 216	43.5
216 - 960	46
960 - 2000	53.9

8.3. Test Instrumentation and Equipment

Table/ 16 Test Instrumentation and Equipment

Item	Model	Manufacturer	Next Date Calibration
Spectrum Analyzer	8593E	HP	31/01/07
Double Ridge Guide Antenna(1-18GHz)	3105	EMCO	24.04.07
Broadband Antenna(30-1000MHz)	BTA-L	FRANKONIA	10.04.07
Low Noise Amplifier (0-1GHz)	AM-1300-N	MITEQ	14.01.07
Low Noise Amplifier (1-2GHz)	SMC-09	MITEQ	14.01.07
Low Noise Amplifier (2-6GHz)	SMC-09	MITEQ	14.01.07

8.4. Results

Preliminary Test Results

**Table/ 17 Preliminary Test Results for Unintentional Emissions in RX Mode
15.109**

Antenna Polarization	Freq. Range MHz	Res. BW (kHz)	Plot No.	PASS/FAIL
Both	30-1000	120	12	Pass
	1000-2.800	120	13	Pass
	2,800-5000	1000	14	Pass

Final Test Results

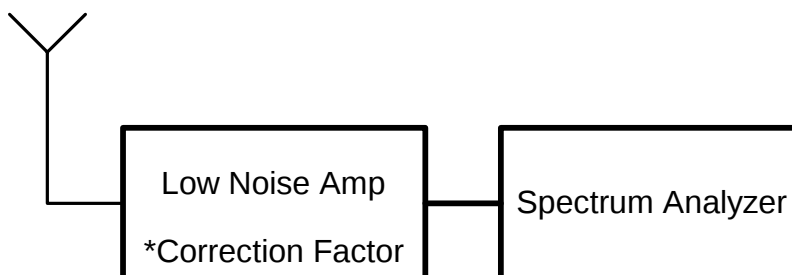
Table/ 18 Six Highest Peak Emission Test Results

Freq. (MHz)	Peak Reading (*) (dB μ V/m)	Limit dB μ V/m	Margin (dB)	Pass/Fail
30MHz – 5GHz	The Emission are at least 20db below the limit			

8.5. Test Procedure

See paragraph 7.6

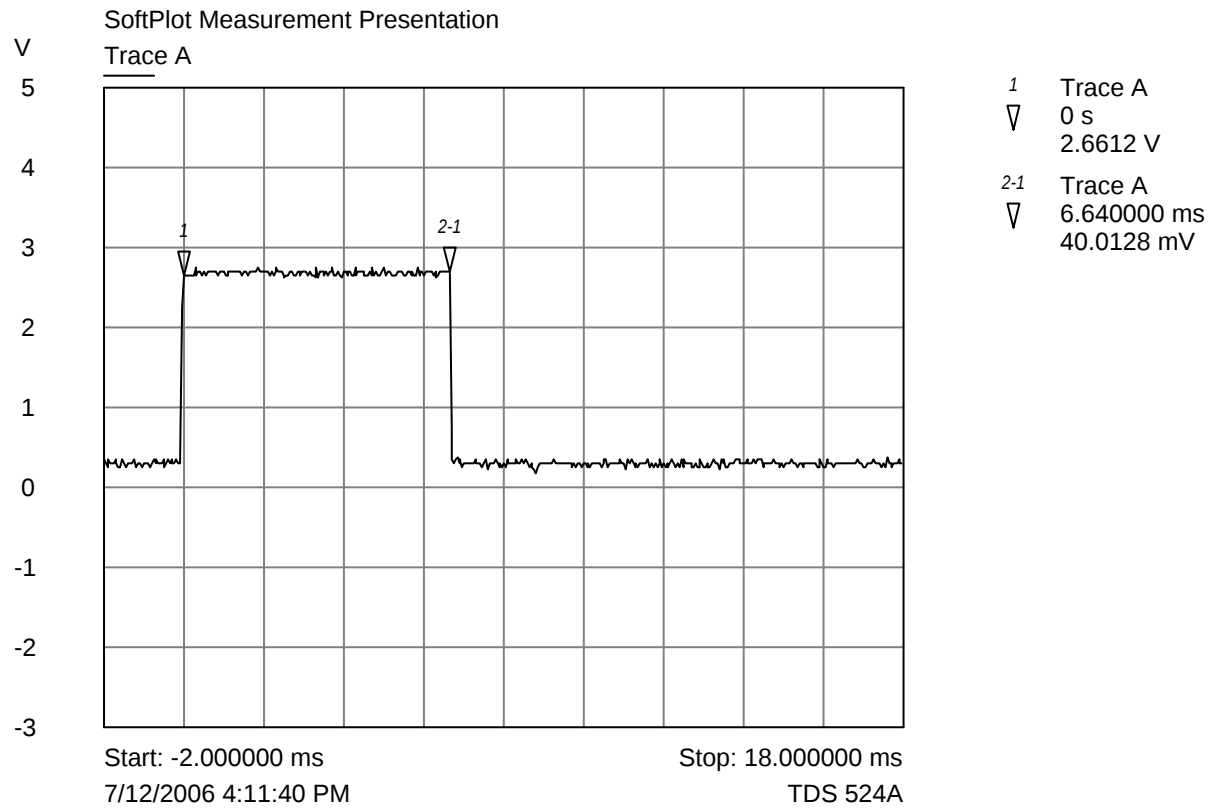
8.6. Test Set up



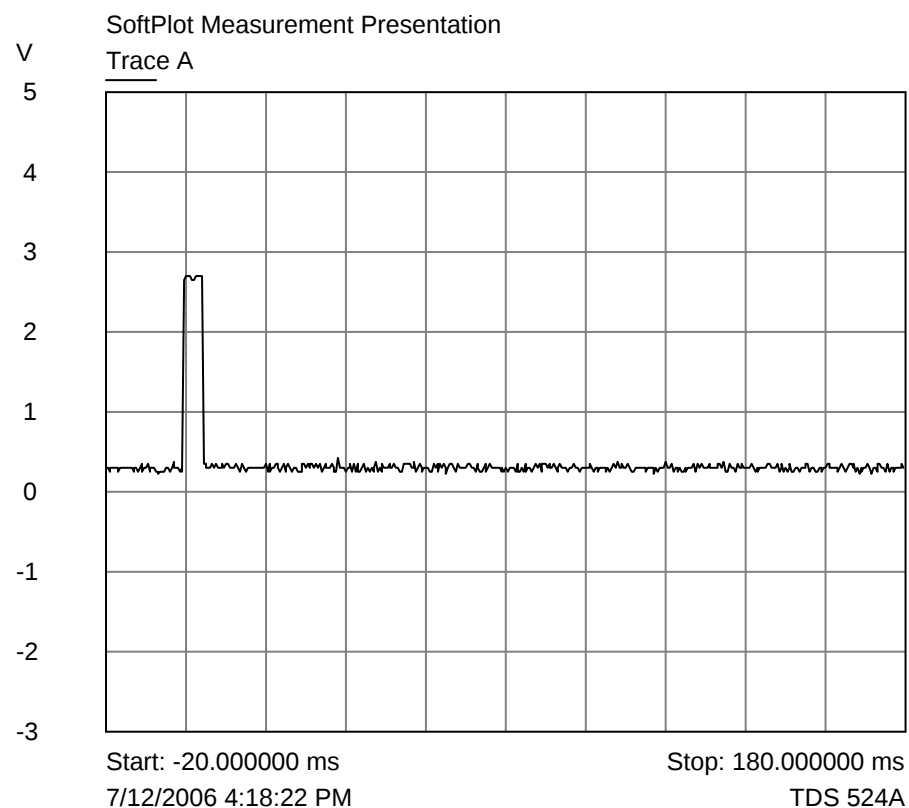
Figure/ 7 Radiated Emission Measurement 9KHz – 10GHz

9. PLOTS OF TEST RESULTS

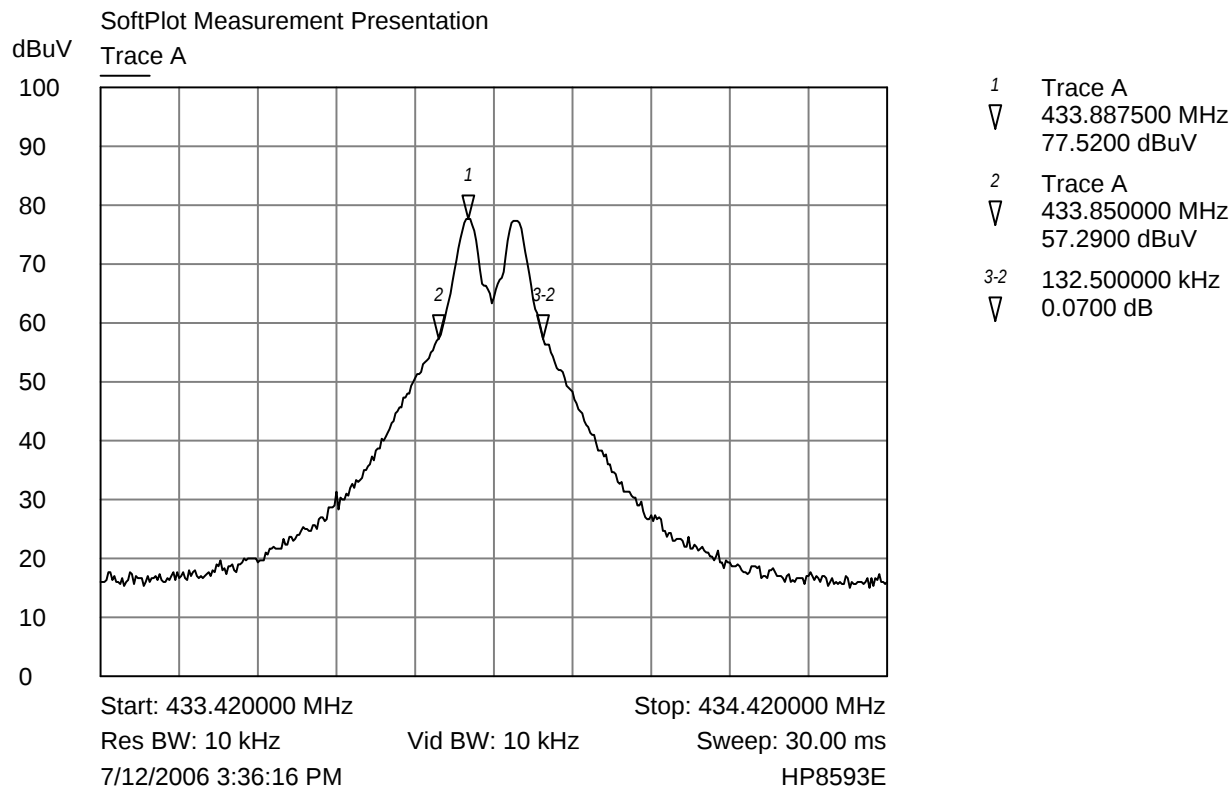
Test Results Plot No 1 Duty Cycle



Test Results Plot No 2 Duty Cycle



Test Results Plot No 3

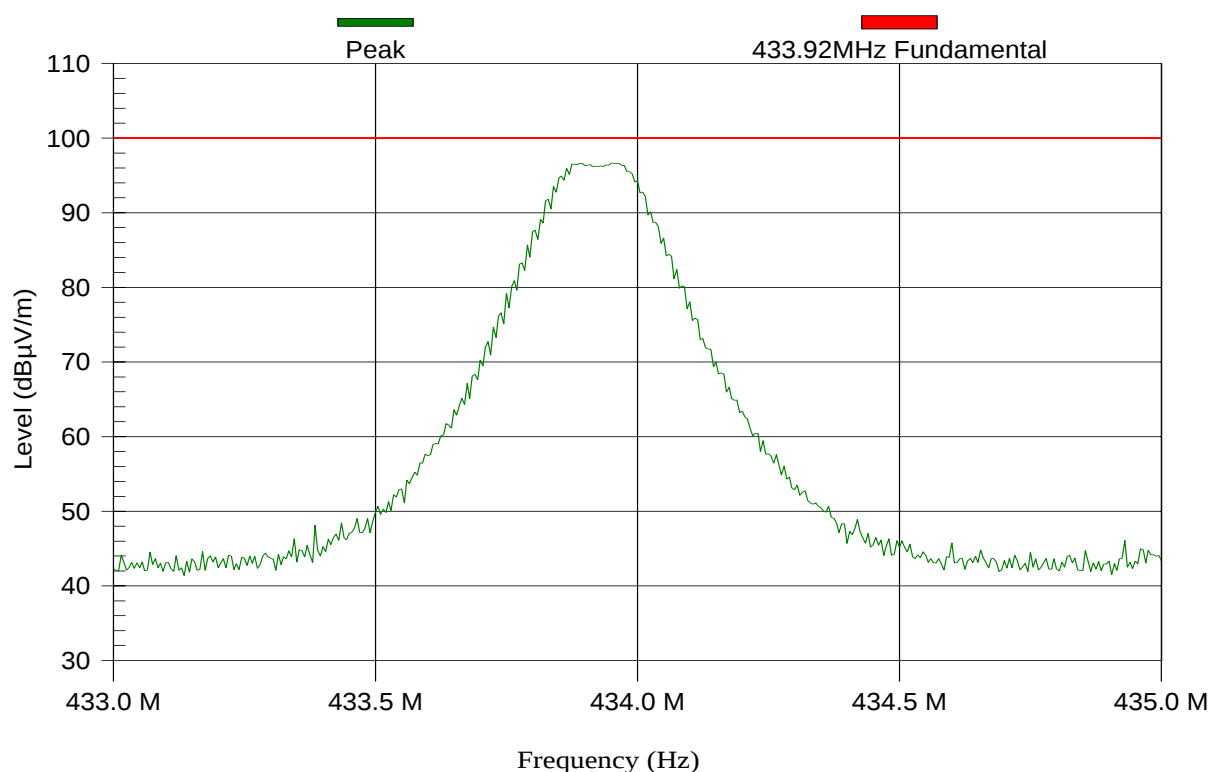


Test Results Plot No 4
FUNDAMENTAL FCC 433.92MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	TRXL720	Spect Analyzer	S.A HP 8593E
S/N:	63553	Ref. Level:	100 dBμV
Date of Test:		RBW:	120 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	1000 kHz
Antenna:	Frankonia BTA-L_A 3m	Sweep Time:	Auto: 20 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, July 12, 2006

11:12:08 AM


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dBμV/m)	PK Limit (dBμV/m)	Result	Angle (degrees)	Height (m)	H/V
1	433.95	96.6	100	Pass	90	1	H

Test Results Plot No 5

FCC 15-209 9-150KHz TX VER

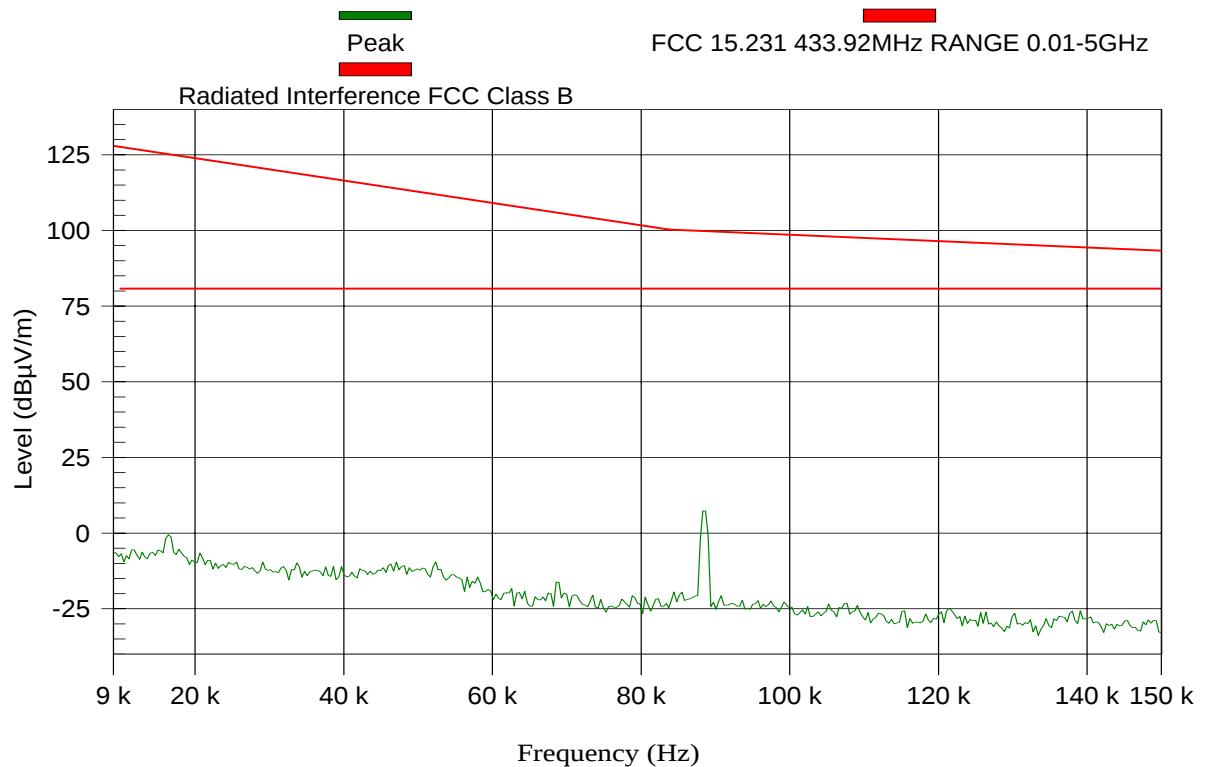
Test & EUT General Information		Receiver Setting	
EUT Name:	TRXL720	Spect Analyzer	S.A HP 8593E
S/N:	63553	Ref. Level:	130 dBμV
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 4.7 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Wednesday, July 12, 2006

3:11:04 PM

Spurious Emission.

TX Mode.



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

Test Results Plot No 6

FCC 15-209 9-150KHz TX HOR

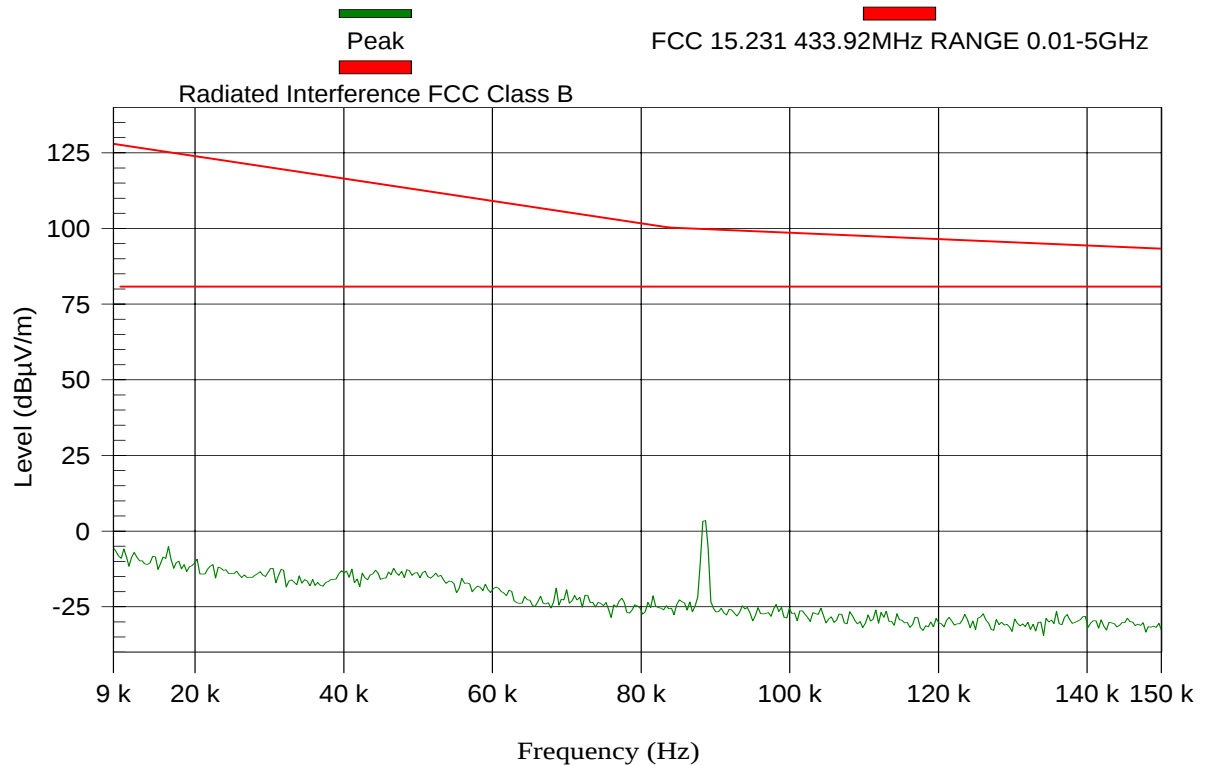
Test & EUT General Information		Receiver Setting	
EUT Name:	TRXL720	Spect Analyzer	S.A HP 8593E
S/N:	63553	Ref. Level:	130 dBμV
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 4.7 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Wednesday, July 12, 2006

2:49:46 PM

Spurious Emission.

TX Mode.



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

Test Results Plot No 7

FCC 15-209 0.15-30MHz TX VER

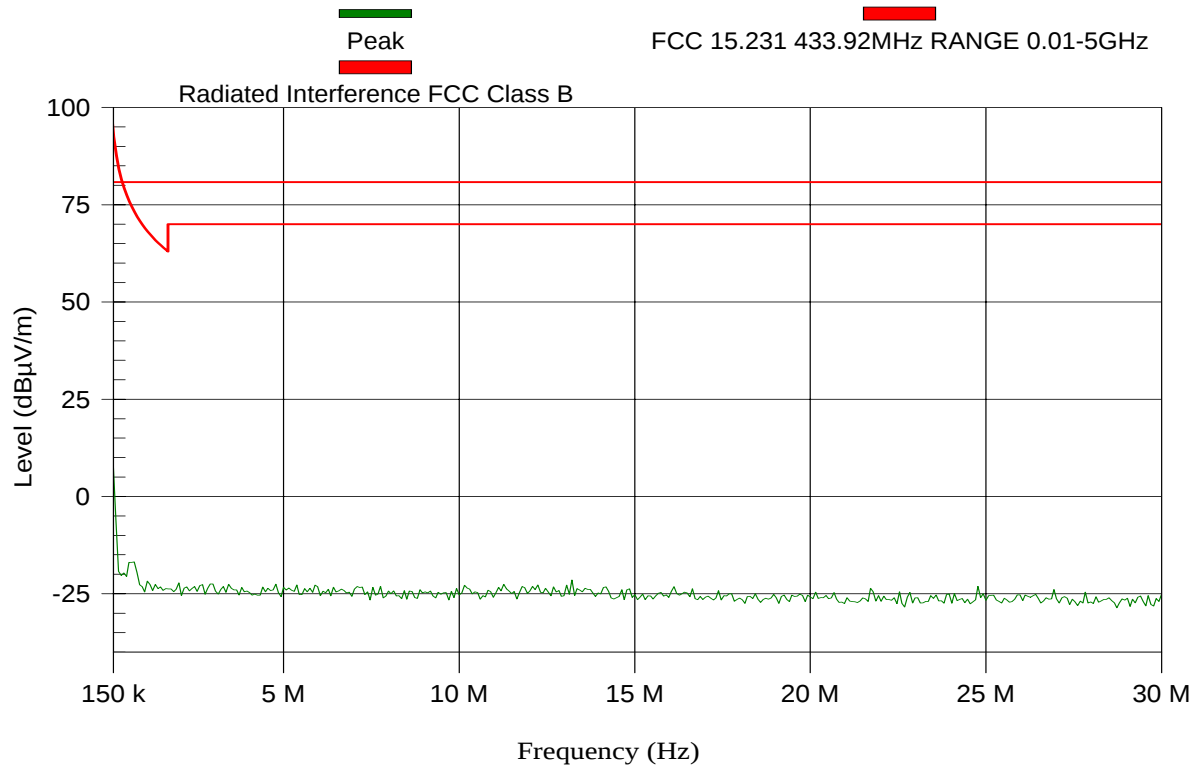
Test & EUT General Information		Receiver Setting	
EUT Name:	TRXL720	Spect Analyzer	S.A HP 8593E
S/N:	63553	Ref. Level:	80 dBμV
Date of Test:		RBW:	9 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 1.11 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Wednesday, July 12, 2006

3:13:54 PM

Spurious Emission.

TX Mode.



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

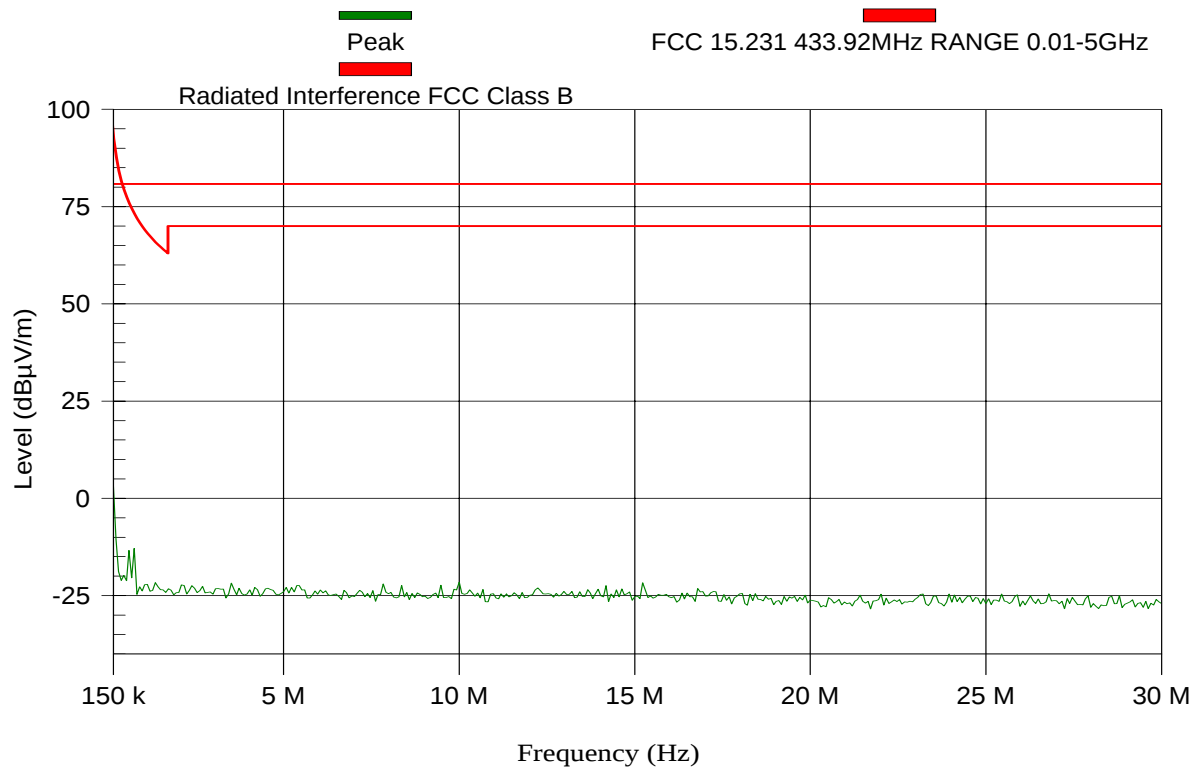
Test Results Plot No 8
FCC 15-209 0.15-30MHz TX HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	TRXL720	Spect Analyzer	S.A HP 8593E
S/N:	63553	Ref. Level:	80 dBμV
Date of Test:		RBW:	9 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 1.11 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Wednesday, July 12, 2006

3:02:22 PM

Spurious Emission TX Mode


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

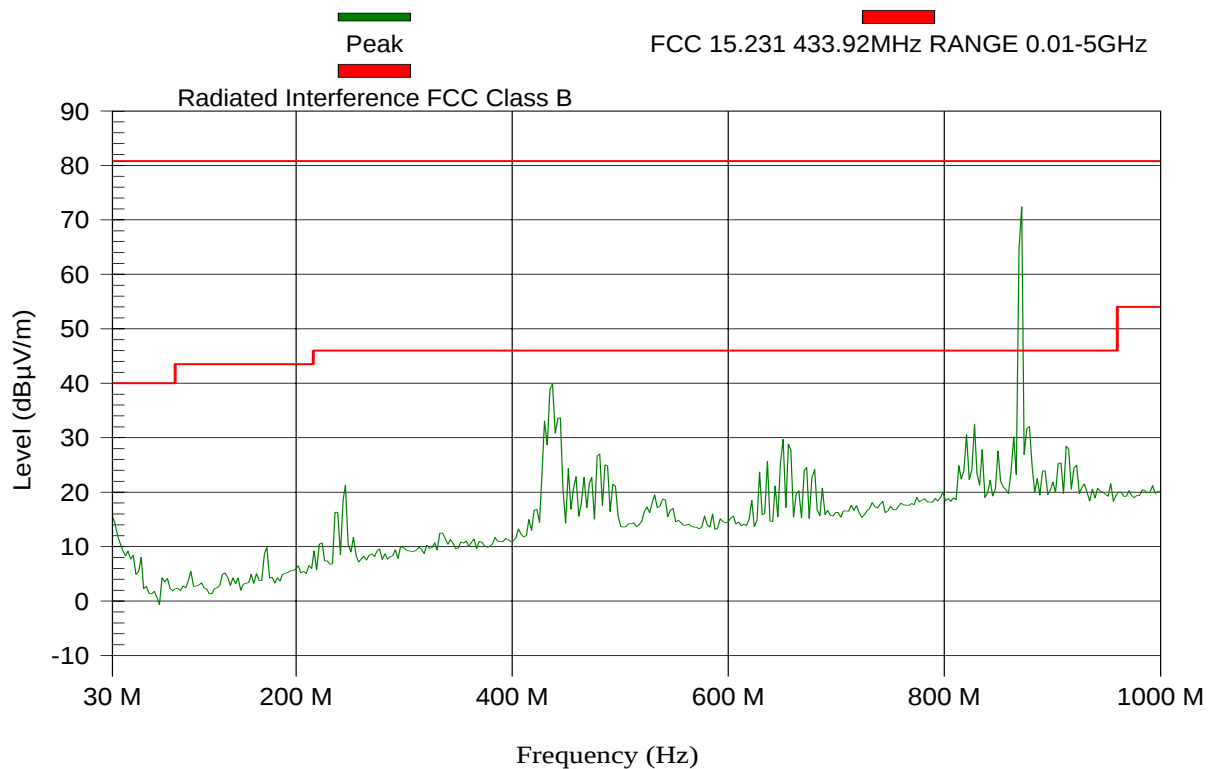
None

Test Results Plot No 9

FCC 15-209 CLASS B 30-1000MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	TRXL720	Spect Analyzer	S.A HP 8593E
S/N:	63553	Ref. Level:	80 dBμV
Date of Test:		RBW:	120 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	1000 kHz
Antenna:	Frankonia BTA-L_A 3m	Sweep Time:	Auto: 202.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Wednesday, July 12, 2006 11:53:33 AM Spurious Emission.



MAXIMUM RESULT DEVIATION:

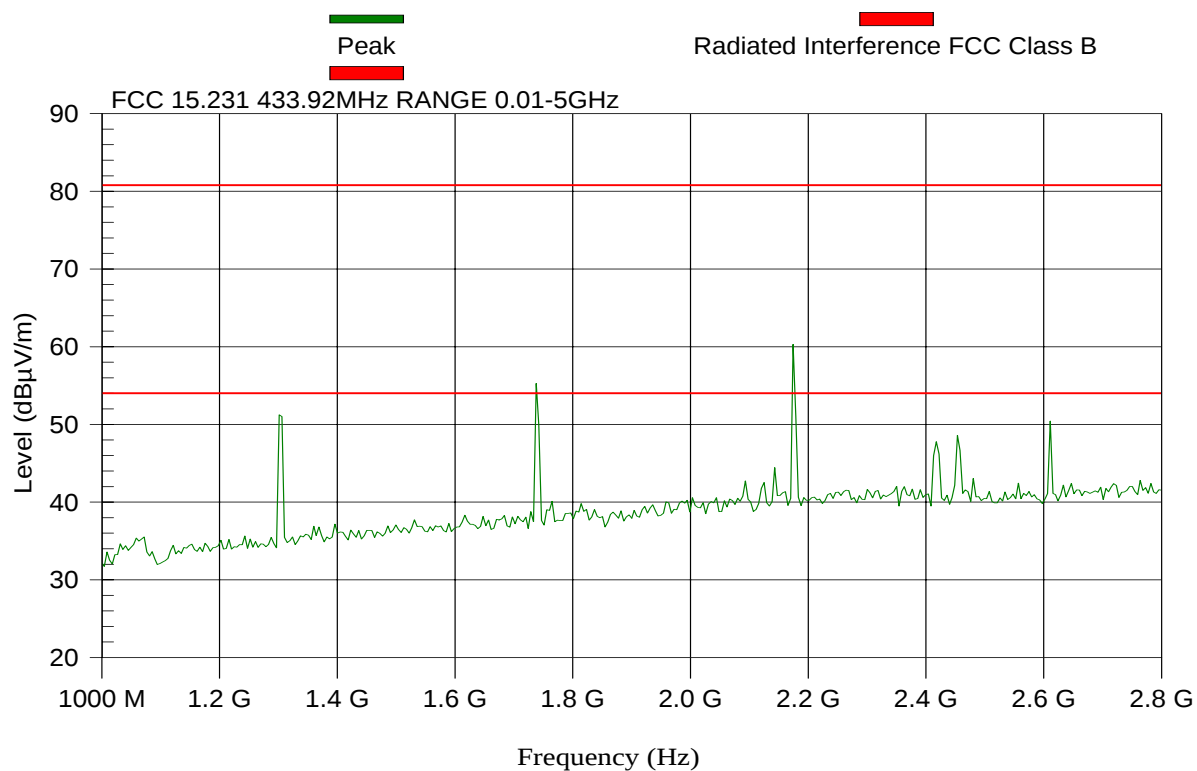
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Frequency (MHz)	PK MaxHold (dBμV/m)	QP Value (dBμV/m)	PK Limit (dBμV/m)	QP Limit (dBμV/m)	Result	Angle (degree es)	Height (m)	H/V
867.906	72.7	72.6	80.8	46	Fail	90	1	V

Test Results Plot No 10
FCC 15-231 1-2.8GHz TX

Test & EUT General Information		Receiver Setting	
EUT Name:	TRXL720	Spect Analyzer	S.A HP 8593E
S/N:	63553	Ref. Level:	80 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 36 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Wednesday, July 12, 2006 12:26:59 PM Spurious Emission.



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequenc y (MHz)	PK Value (dBμV/m)	QP Value (dBμV/m)	PK Limit (dBμV/m)	QP Limit (dBμV/m)	Result	Angle (degr ees)	Heigh t (m)	H/V
1	1301.648	49.3	48.1	80.8	54	Pass	270	1	V
2	1735.588	54.1	53.2	80.8	54	Pass	180	1	H
3	2169.626	57.9	57	80.8	54	Fail	0	1.6	H
4	2453.5	48.6	34.7	80.8	54	Pass	90	1	V
5	2603.435	49.2	44.5	80.8	54	Pass	355	1.6	H

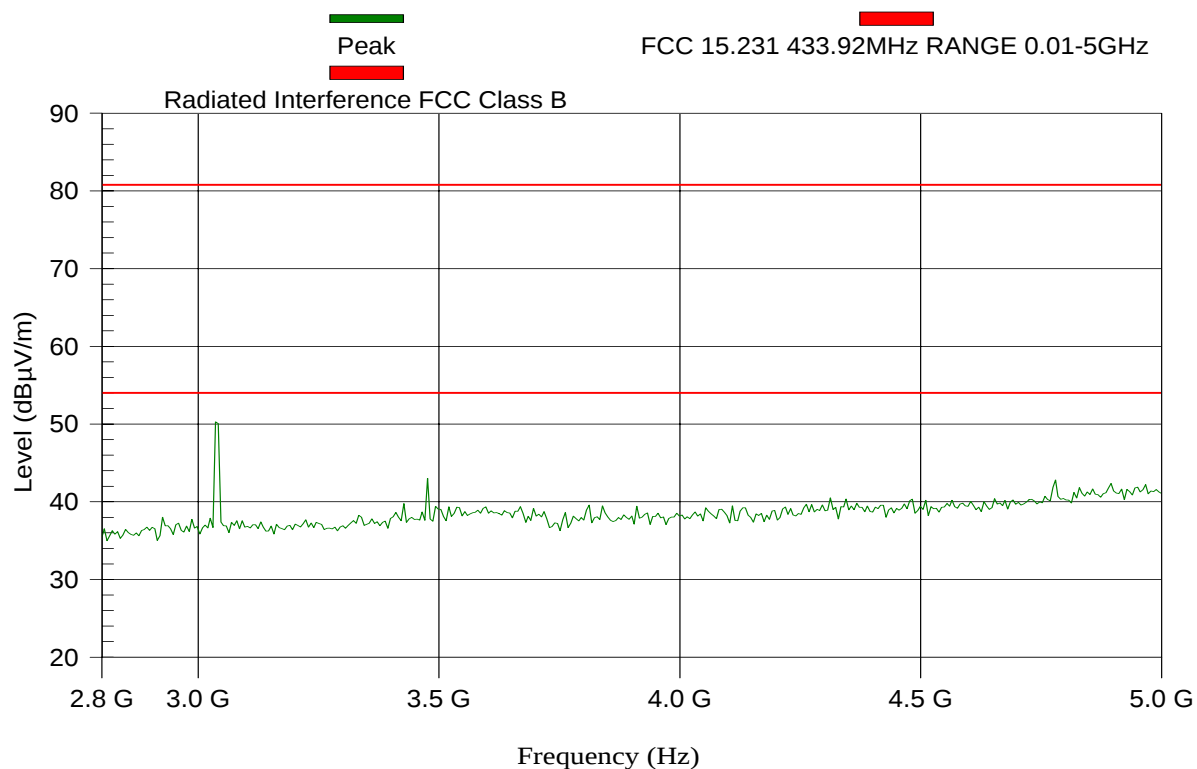
Test Results Plot No 11
FCC 15-231 2.8-5GHz TX

Test & EUT General Information		Receiver Setting	
EUT Name:	TRXL720	Spect Analyzer	S.A HP 8593E
S/N:	63553	Ref. Level:	80 dBμV
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 44 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	ELISRA AMP 2-6 GHz

TEST REMARKS: Wednesday, July 12, 2006

1:38:31 PM

Spurious Emission.



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequenc y (MHz)	PK MaxHold (dBμV/m)	QP Value (dBμV/m)	PK Limit (dBμV/m)	QP Limit (dBμV/m)	Result	Angle (degr ees)	Heigh t (m)	H/V
1	3037.224	51.9	50.3	80.8	54	Pass	90	1.3	V
2	3037.576	51.8	50.5	80.8	54	Pass	90	1	V

Test Results Plot No 12

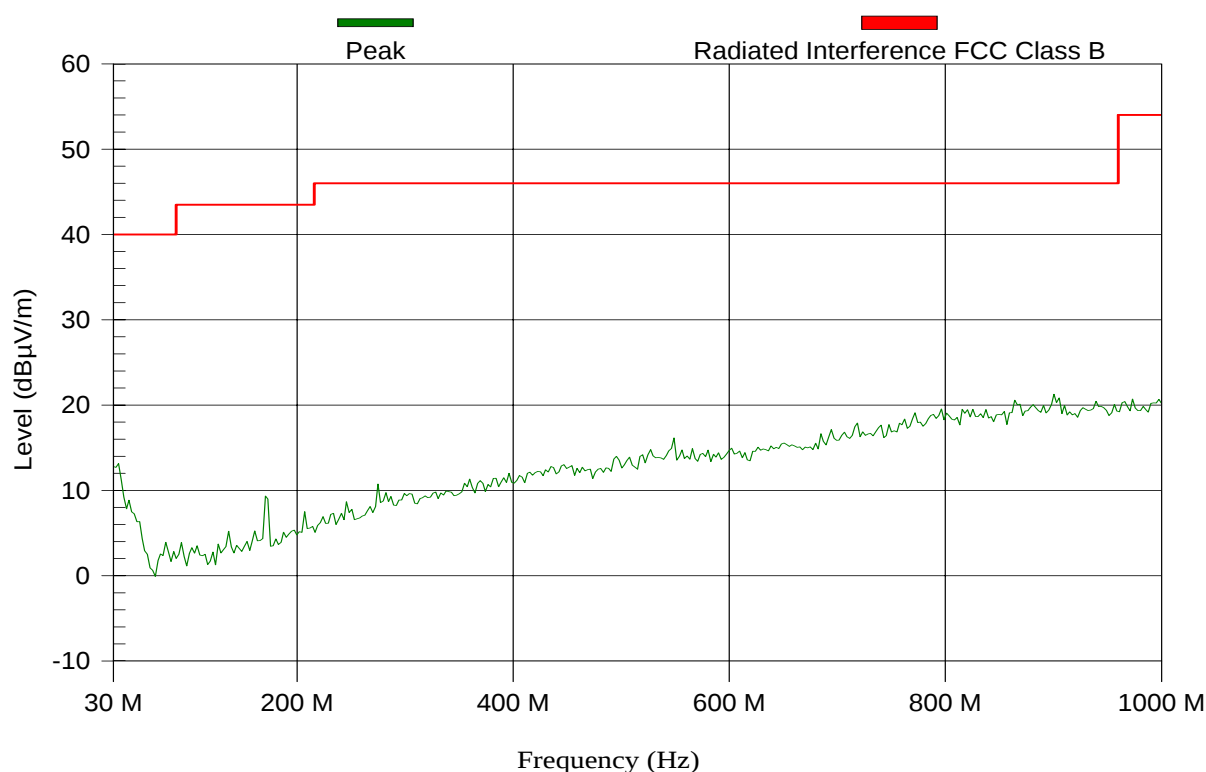
FCC 15-109 30-1000MHz Stby

Test & EUT General Information		Receiver Setting	
EUT Name:	TRXL720	Spect Analyzer	S.A HP 8593E
S/N:	63553	Ref. Level:	80 dBμV
Date of Test:		RBW:	120 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	1000 kHz
Antenna:	Frankonia BTA-L_A 3m	Sweep Time:	Auto: 202.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Wednesday, July 12, 2006

12:01:09 PM

Spurious Emission.



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

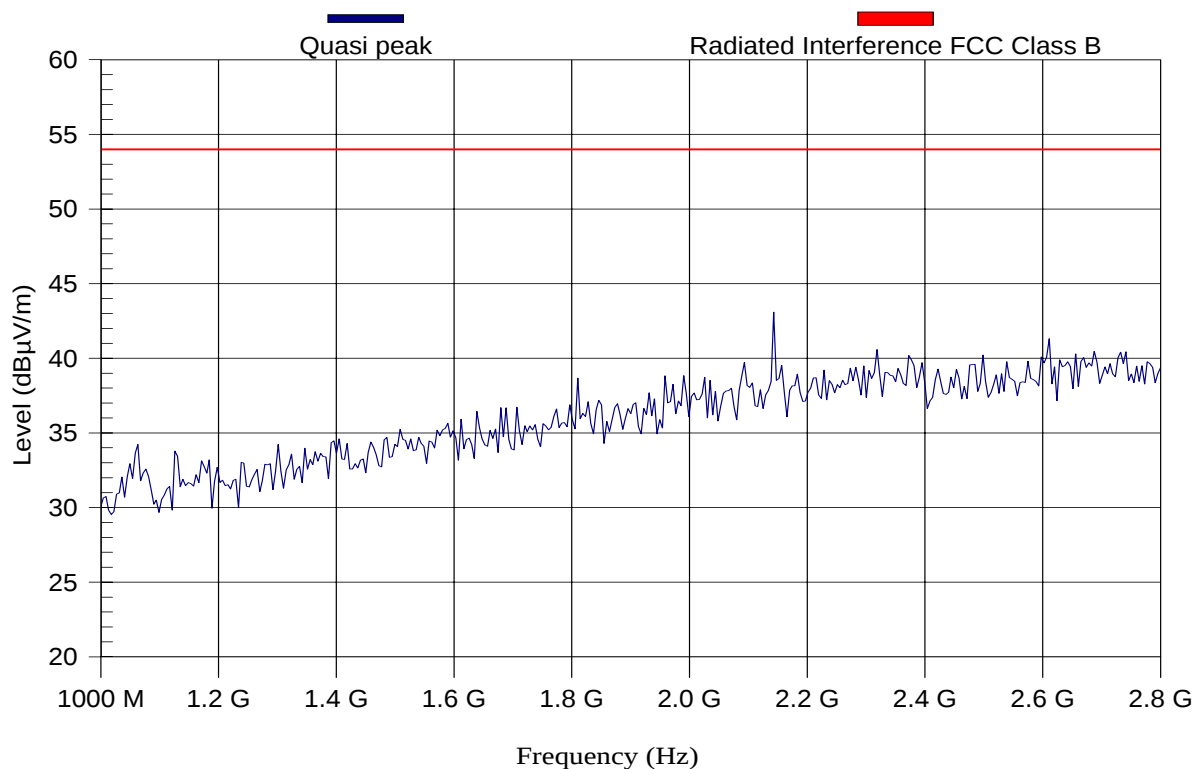
None

Test Results Plot No 13
FCC 15-109 1-2.8GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	TRXL720	Spect Analyzer	S.A HP 8593E
S/N:	63553	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 36 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Wednesday, July 12, 2006 1:37:19 PM

Spurious Emission Stby Mode.


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

Test Results Plot No 14
FCC 15-231 2.8-5GHz RX

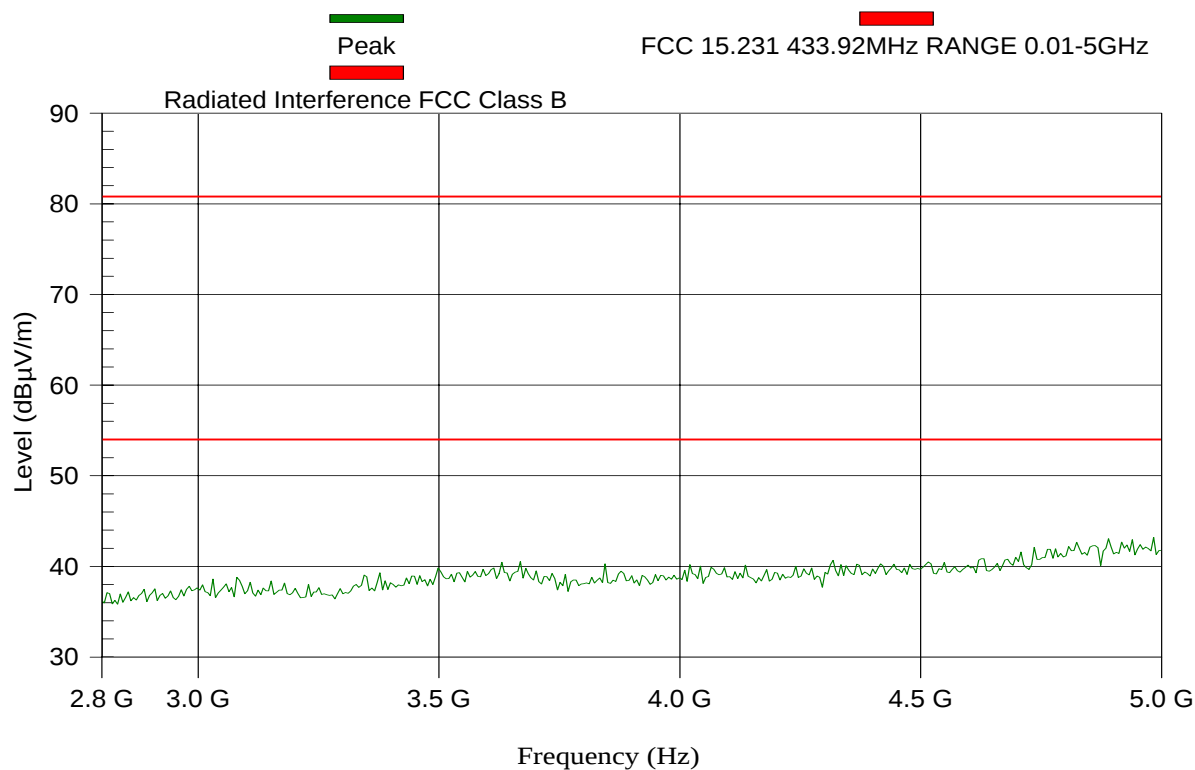
Test & EUT General Information		Receiver Setting	
EUT Name:	TRXL720	Spect Analyzer	S.A HP 8593E
S/N:	63553	Ref. Level:	80 dBμV
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 44 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	ELISRA AMP 2-6 GHz

TEST REMARKS: Wednesday, July 12, 2006

1:45:37 PM

Spurious Emission.

Stby Mode.


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None



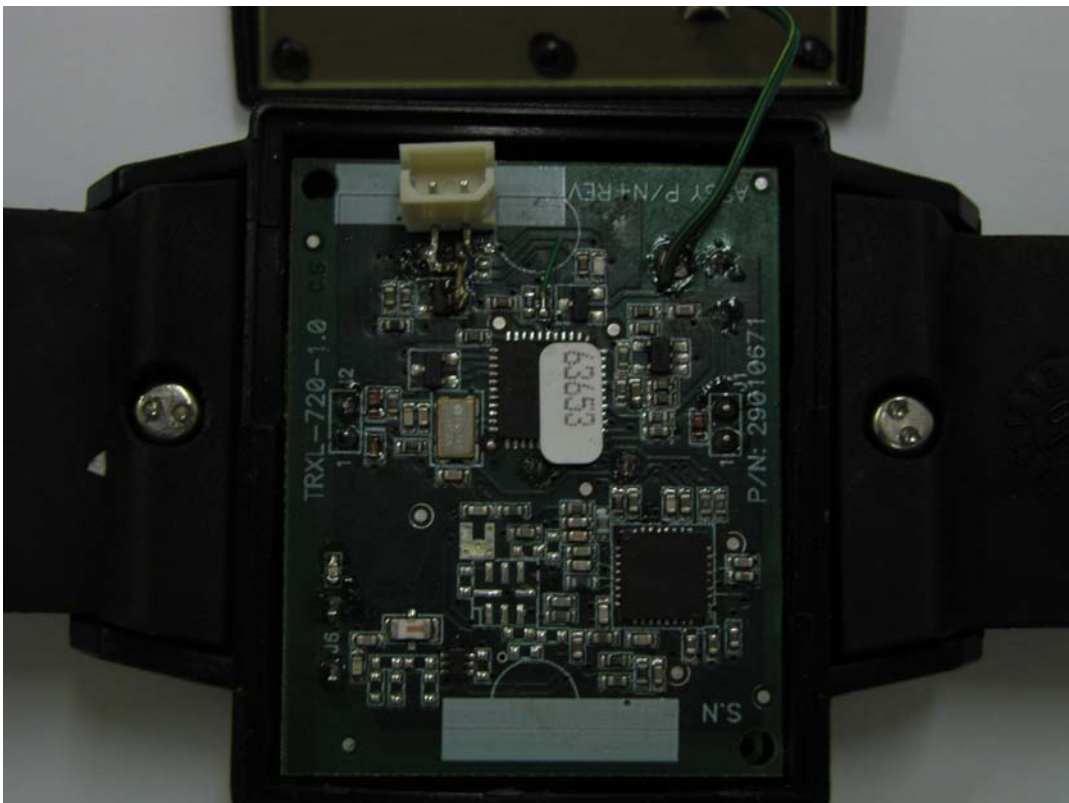
Photograph/ 1 ***Radiated Emission Test Setup up to 30MHz***



Photograph/ 2 ***Radiated Emission Test Setup 30MHz – 1GHz***



Photograph/ 3 EUT



Photograph/ 4 EUT

