

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
Interactive Toy Concepts Limited

Wi-Spi Intruder
Model No.: 44074

FCC ID: QE844074

Prepared for : Interactive Toy Concepts Limited
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Date of Test : June 6-27, 2012
Date of Report : June 27, 2012

TABLE OF CONTENTS

Description	Page
Test Report Certification	
1. GENERAL INFORMATION	5
1.1. Description of Device (EUT).....	5
1.2. Test Procedure	6
1.3. Description of Test Facility	6
1.4. Measurement Uncertainty.....	6
2. MEASURING DEVICE AND TEST EQUIPMENT	7
3. OPERATION OF EUT DURING TESTING	8
3.1. Operating Mode.....	8
3.2. Configuration and peripherals	8
4. TEST PROCEDURES AND RESULTS	9
5. 6DB BANDWIDTH MEASUREMENT.....	10
5.1. Block Diagram of Test Setup.....	10
5.2. The Requirement For Section 15.247(a)(2).....	10
5.3. EUT Configuration on Measurement	10
5.4. Operating Condition of EUT	10
5.5. Test Procedure	11
5.6. Test Result	11
6. MAXIMUM PEAK OUTPUT POWER	18
6.1. Block Diagram of Test Setup.....	18
6.2. The Requirement For Section 15.247(b)(3).....	18
6.3. EUT Configuration on Measurement	18
6.4. Operating Condition of EUT	18
6.5. Test Procedure	19
6.6. Test Result	19
7. POWER SPECTRAL DENSITY MEASUREMENT.....	26
7.1. Block Diagram of Test Setup.....	26
7.2. The Requirement For Section 15.247(e).....	26
7.3. EUT Configuration on Measurement	26
7.4. Operating Condition of EUT	26
7.5. Test Procedure	27
7.6. Test Result	28
8. BAND EDGE COMPLIANCE TEST	35
8.1. Block Diagram of Test Setup.....	35
8.2. The Requirement For Section 15.247(d)	35
8.3. EUT Configuration on Measurement	35
8.4. Operating Condition of EUT	36
8.5. Test Procedure	36
8.6. Test Result	37
9. RADIATED SPURIOUS EMISSION TEST	54
9.1. Block Diagram of Test Setup.....	54
9.2. The Limit For Section 15.247(d)	55
9.3. Restricted bands of operation	55
9.4. Configuration of EUT on Measurement	56
9.5. Operating Condition of EUT	56
9.6. Test Procedure	56

9.7. The Field Strength of Radiation Emission Measurement Results57

10. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST99

10.1. Block Diagram of Test Setup.....99

10.2. The Requirement For Section 15.247(d)99

10.3. EUT Configuration on Measurement99

10.4. Operating Condition of EUT100

10.5. Test Procedure100

10.6. Test Result100

11. AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A) 107

11.1. Block Diagram of Test Setup.....107

11.2. The Emission Limit107

11.3. Configuration of EUT on Measurement108

11.4. Operating Condition of EUT108

11.5. Test Procedure108

11.6. Power Line Conducted Emission Measurement Results109

12. ANTENNA REQUIREMENT.....112

12.1. The Requirement112

12.2. Antenna Construction112

Test Report Certification

Applicant : Interactive Toy Concepts Limited
Manufacturer : Interactive Toy Concepts Limited
EUT Description : Wi-Spi Intruder
(A) MODEL NO.: 44074
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: DC 3.7V(Lithium ion battery) & AC 120V/60Hz
(Power by battery)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.4: 2003

The EUT was tested according to DTS test procedure of January 18, 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : June 6-27, 2012

Prepared by :

Apple Lv

(Engineer)

Approved & Authorized Signer :

Heunb

(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Wi-Spi Intruder
Model Number	:	44074
Frequency Band	:	2412-2462MHz
Number of Channels	:	11
Antenna Gain	:	2dBi
Power Supply	:	DC 3.7V(Lithium ion battery) & AC 120V/60Hz (Power by battery)
Adapter	:	Model number: TL01C-050100U Input: AC 100-240V; 50/60Hz Output: DC 5V/1200mA
Data Rate	:	IEEE 802.11b: 11/5.5/2/1Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6Mbps
Applicant	:	Interactive Toy Concepts Limited
Address	:	Unit 709, 7/F., Tower 2, Cheung Sha Wan Plaza, No.833 Cheung Sha Wan Rd., Kowloon, Hong Kong
Manufacturer	:	Interactive Toy Concepts Limited
Address	:	Unit 709, 7/F., Tower 2, Cheung Sha Wan Plaza, No.833 Cheung Sha Wan Rd., Kowloon, Hong Kong
Date of sample received	:	June 6, 2012
Date of Test	:	June 6-27, 2012

1.2.Test Procedure

The EUT was tested according to DTS test procedure of January 18, 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

1.3.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.4.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 8, 2012	Jan. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 8, 2012	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 8, 2012	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 8, 2012	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 8, 2012	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 8, 2012	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 8, 2012	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 8, 2012	Jan. 7, 2013

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: **802.11b Transmitting mode**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

802.11g Transmitting mode

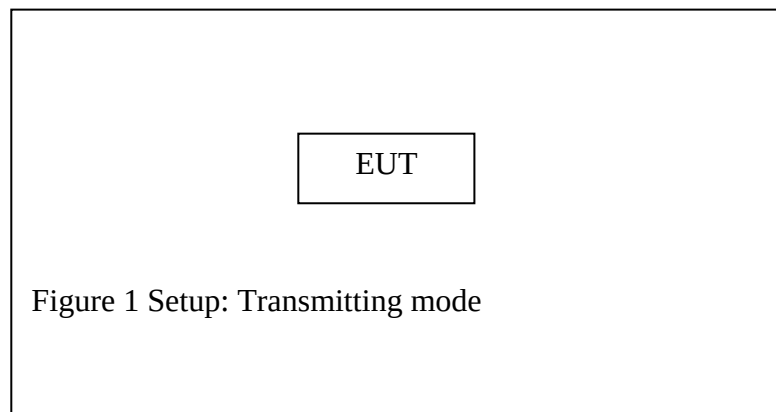
Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

Charging

3.2.Configuration and peripherals



4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.247(d)	Antenna Conducted Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 6DB BANDWIDTH MEASUREMENT

5.1. Block Diagram of Test Setup



(EUT: Wi-Spi Intruder)

5.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.3. EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1. Wi-Spi Intruder (EUT)

Model Number	:	44074
Serial Number	:	N/A
Manufacturer	:	Interactive Toy Concepts Limited

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

5.5. Test Procedure

5.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

5.5.2. Set RBW of spectrum analyzer to 300kHz and VBW to 1MHz.

5.5.3. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

5.6. Test Result

PASS.

Date of Test:	June 14, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Apple

The test was performed with 802.11b

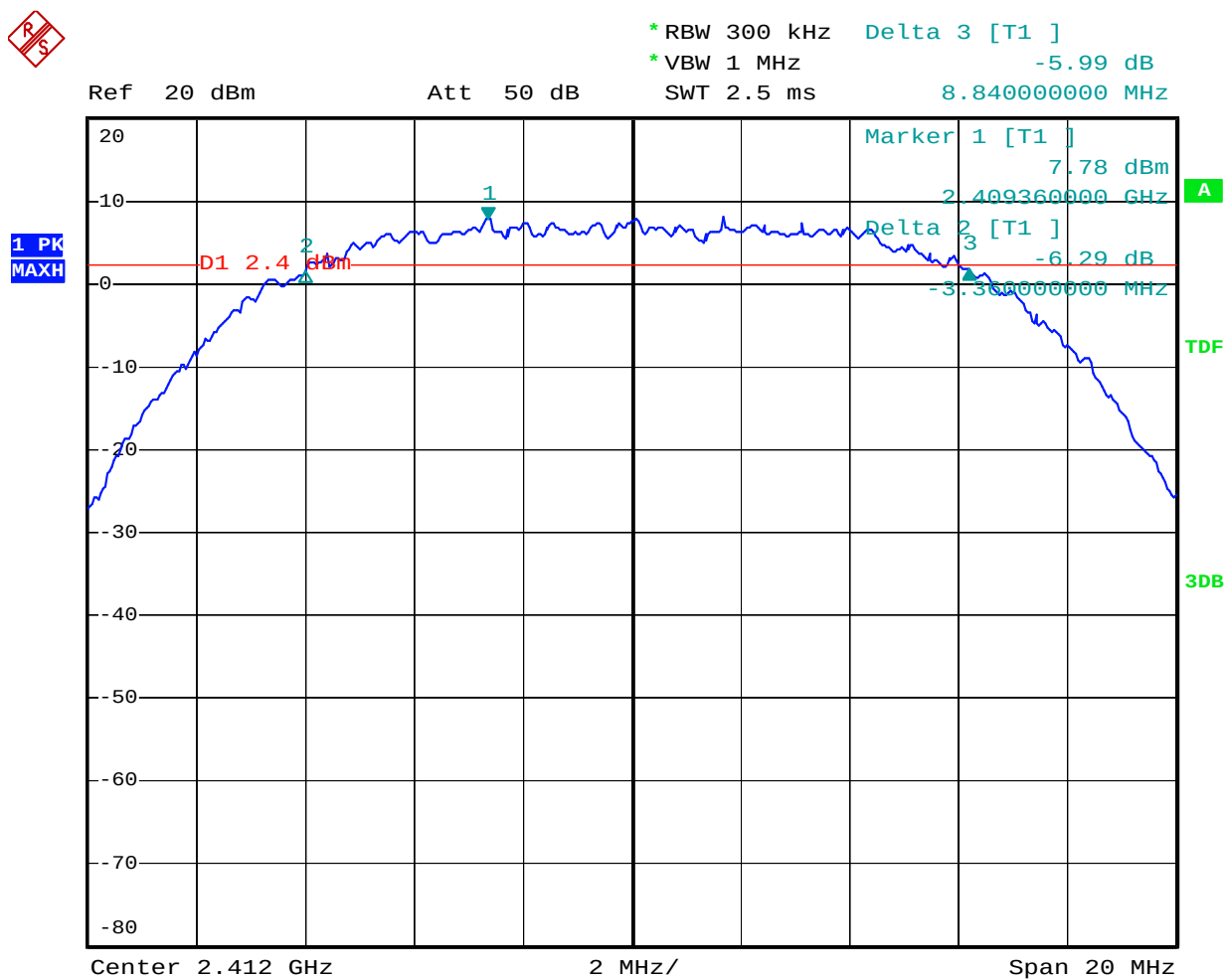
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	12.20	> 0.5MHz
Middle	2437	12.08	> 0.5MHz
High	2462	12.20	> 0.5MHz

The test was performed with 802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.68	> 0.5MHz
Middle	2437	16.72	> 0.5MHz
High	2462	16.68	> 0.5MHz

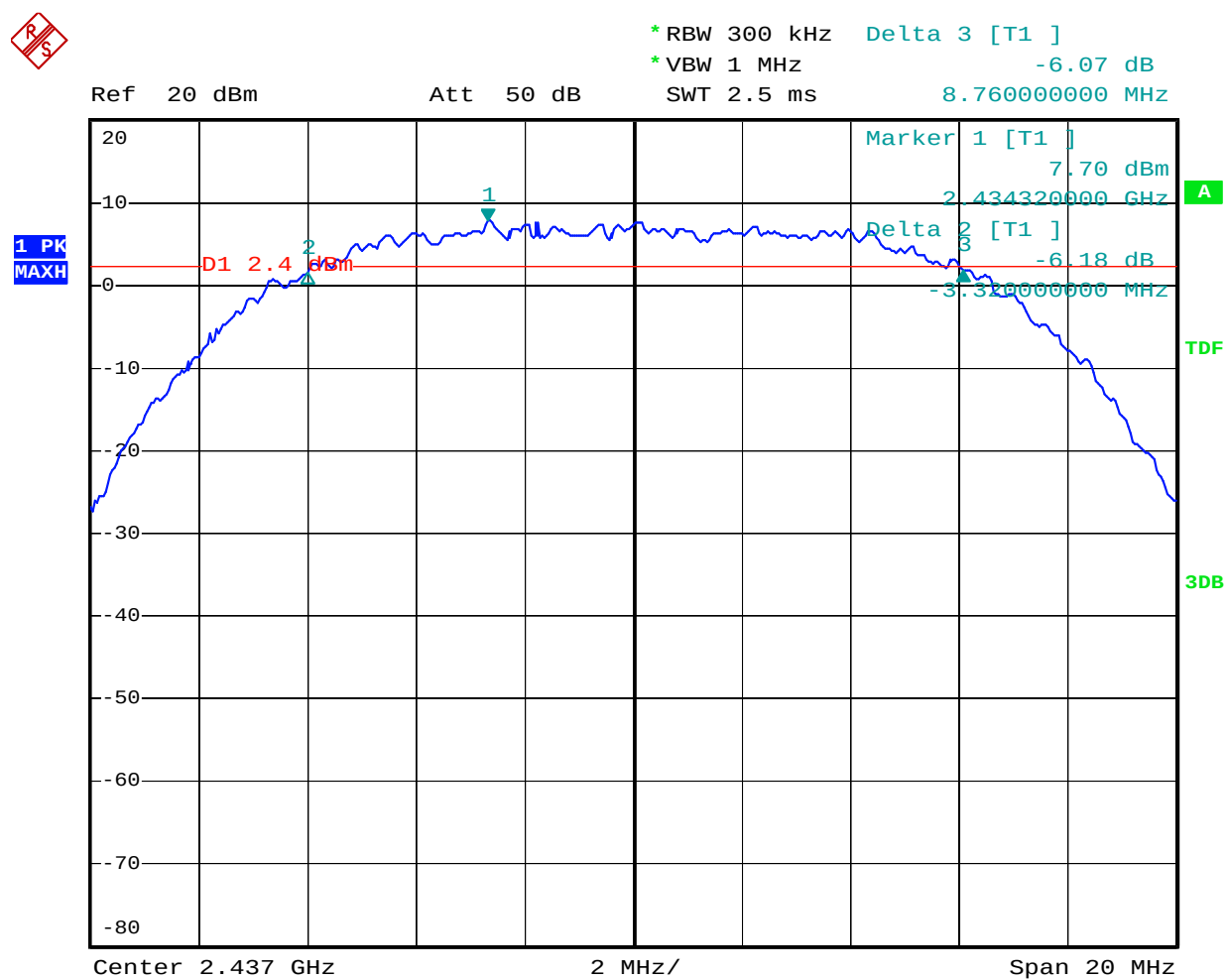
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



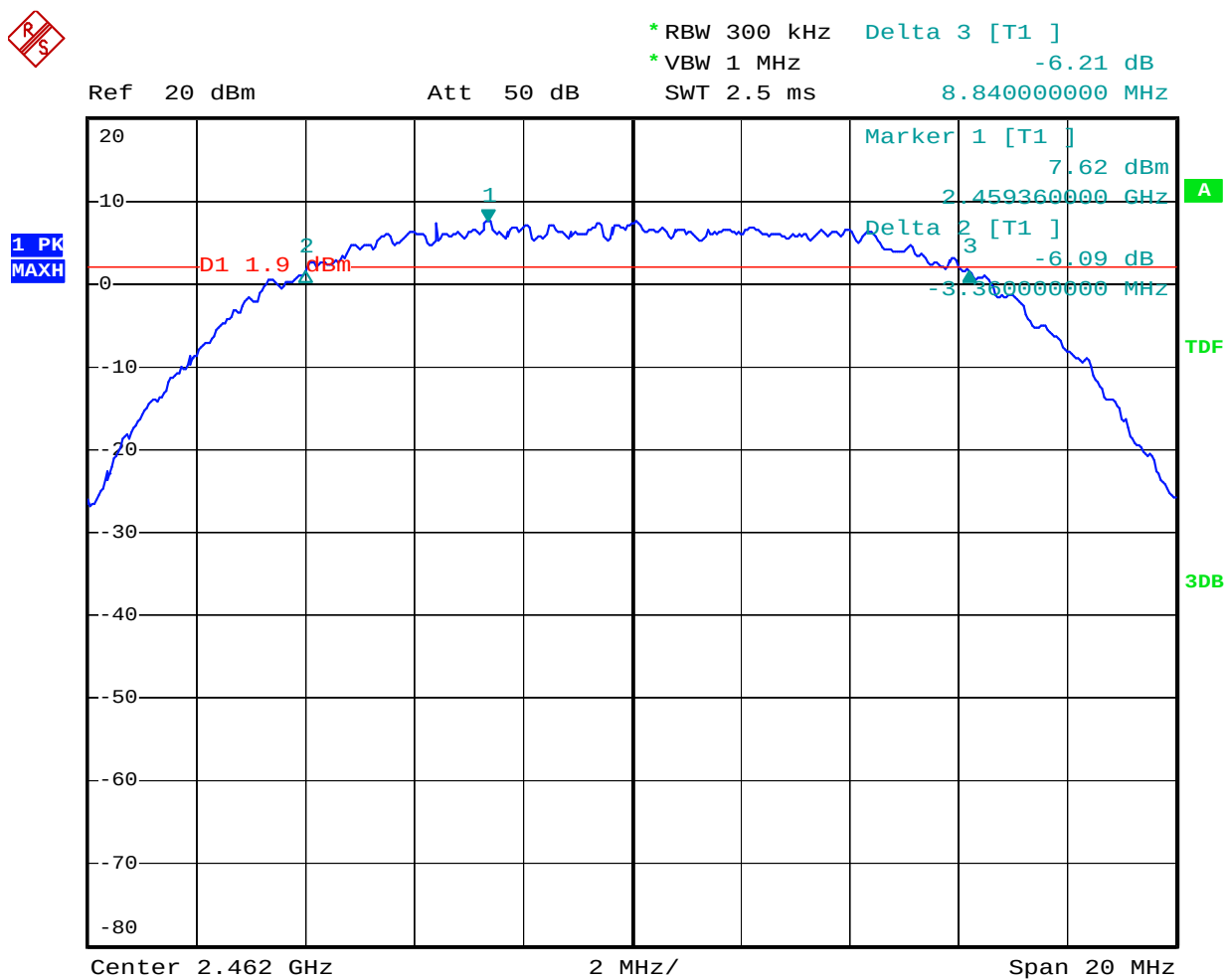
Date: 14.JUN.2012 18:01:44

802.11b Channel Middle 2437MHz



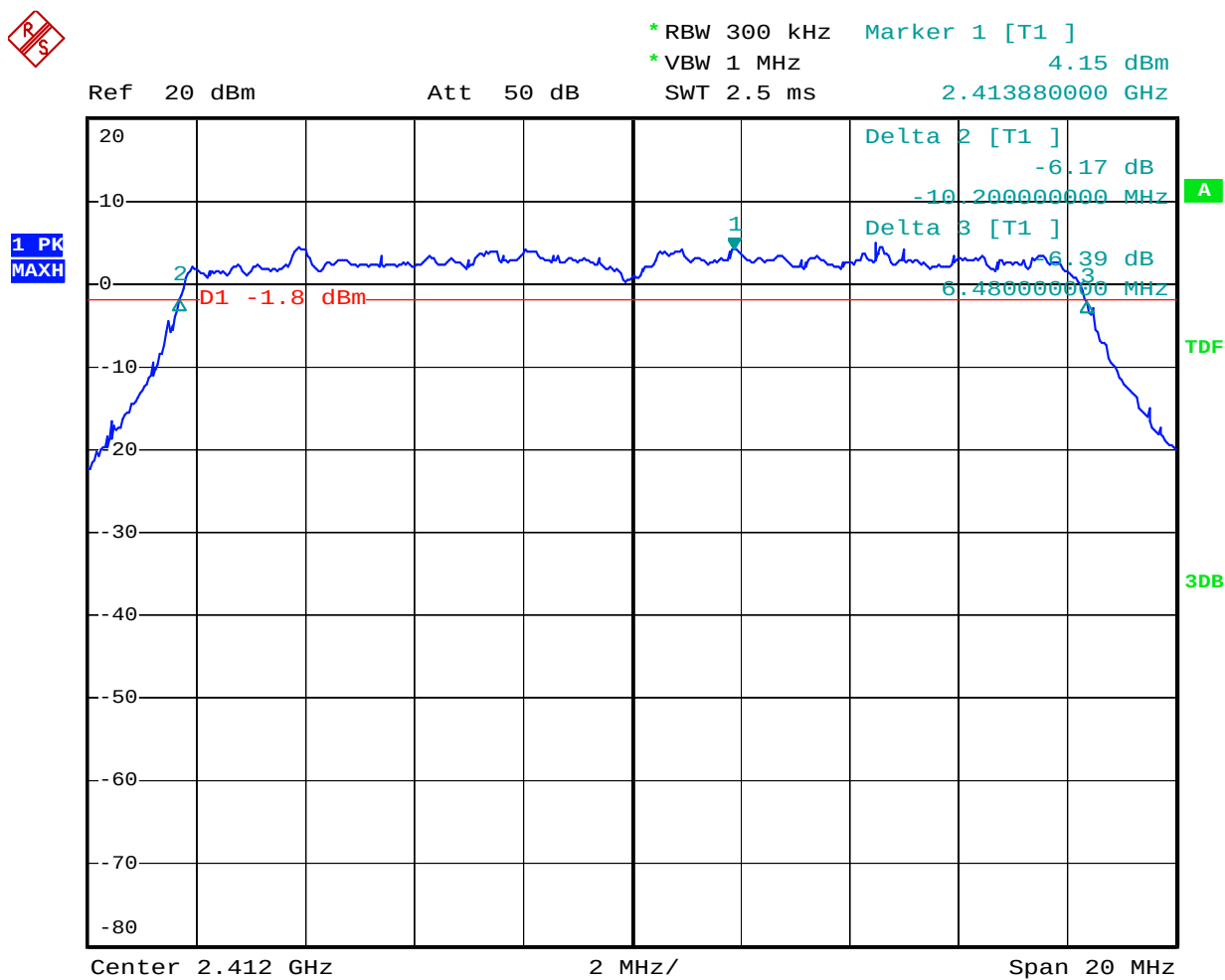
Date: 14.JUN.2012 18:02:59

802.11b Channel High 2462MHz



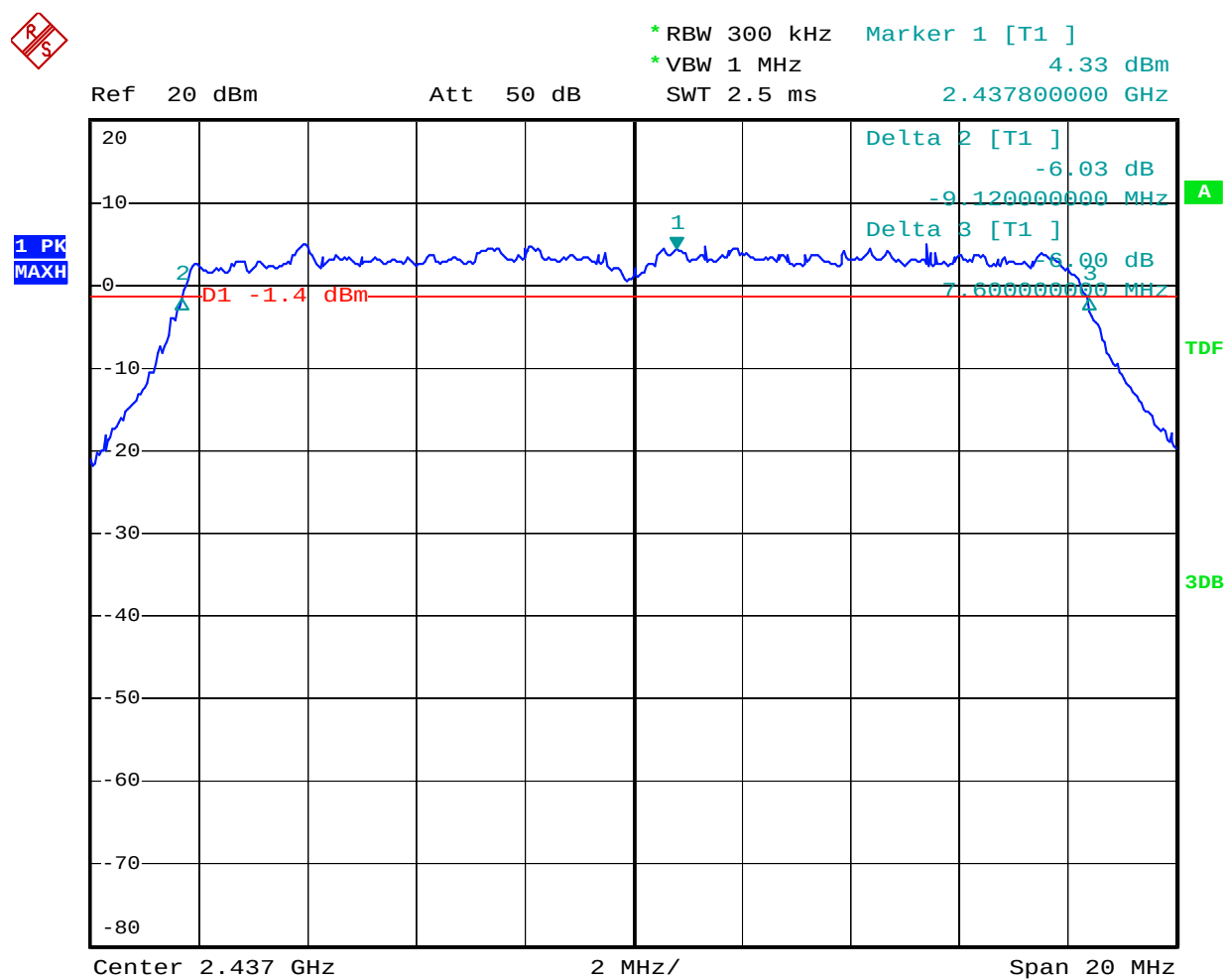
Date: 14.JUN.2012 18:04:14

802.11g Channel Low 2412MHz



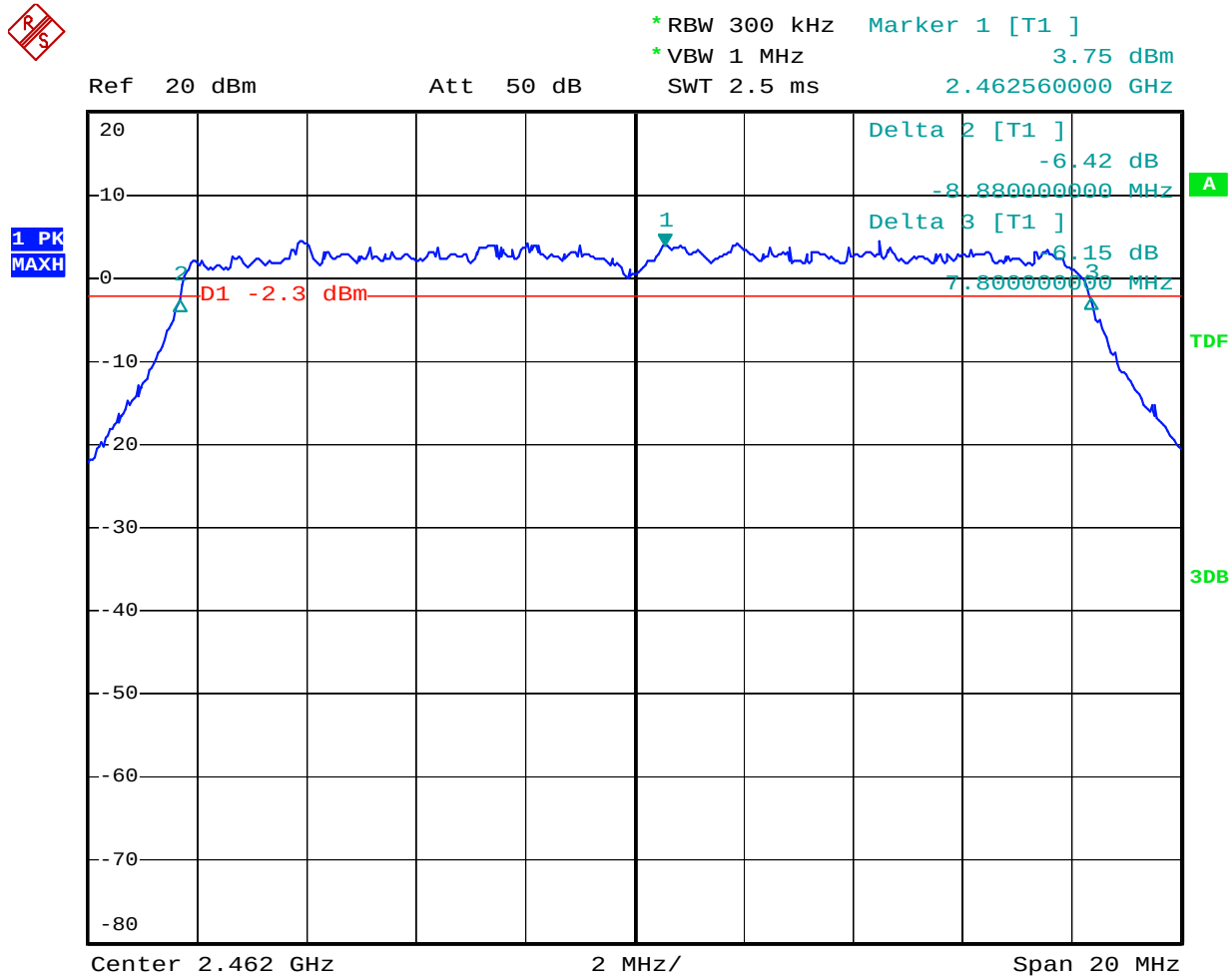
Date: 14.JUN.2012 18:09:59

802.11g Channel Middle 2437MHz



Date: 14.JUN.2012 19:50:33

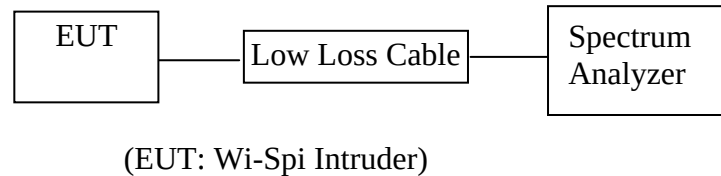
802.11g Channel High 2462MHz



Date: 14.JUN.2012 18:09:03

6. MAXIMUM PEAK OUTPUT POWER

6.1. Block Diagram of Test Setup



6.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

6.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1. Wi-Spi Intruder (EUT)

Model Number : 44074
 Serial Number : N/A
 Manufacturer : Interactive Toy Concepts Limited

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

6.5.Test Procedure

6.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2.Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.

6.5.3.Measurement the maximum peak output power.

6.6.Test Result

PASS.

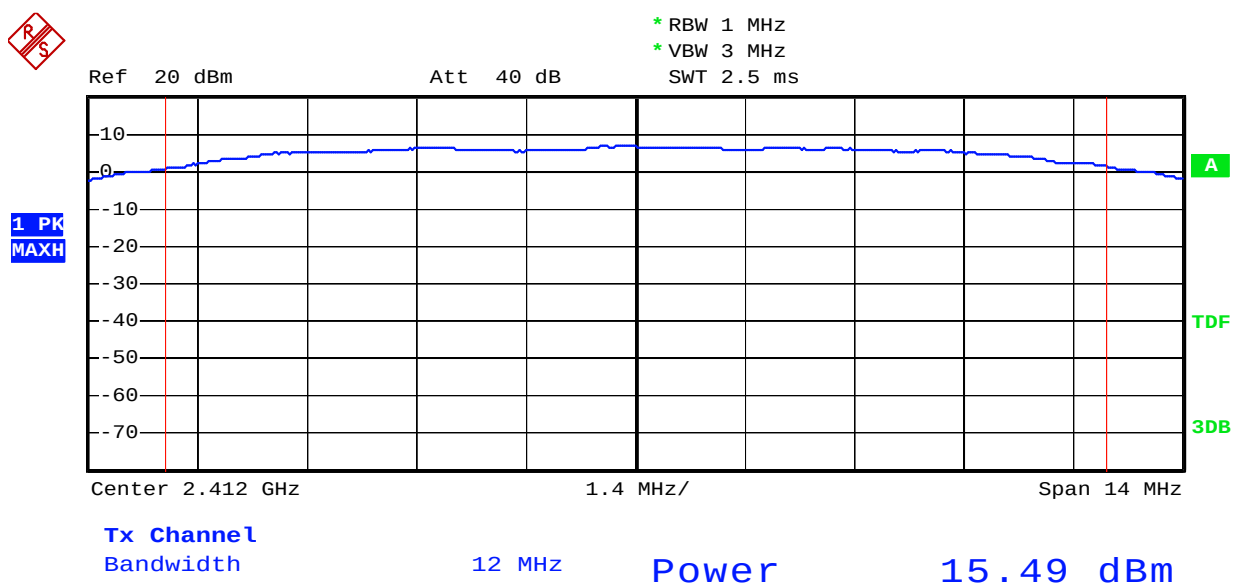
Date of Test:	<u>June 14, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wi-Spi Intruder</u>	Humidity:	<u>50%</u>
Model No.:	<u>44074</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Apple</u>

The test was performed with 802.11b				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	15.49	35.40	30 dBm / 1 W
Middle	2437	15.70	37.15	30 dBm / 1 W
High	2462	15.01	31.70	30 dBm / 1 W

The test was performed with 802.11g				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	15.99	39.72	30 dBm / 1 W
Middle	2437	15.82	38.19	30 dBm / 1 W
High	2462	15.62	36.48	30 dBm / 1 W

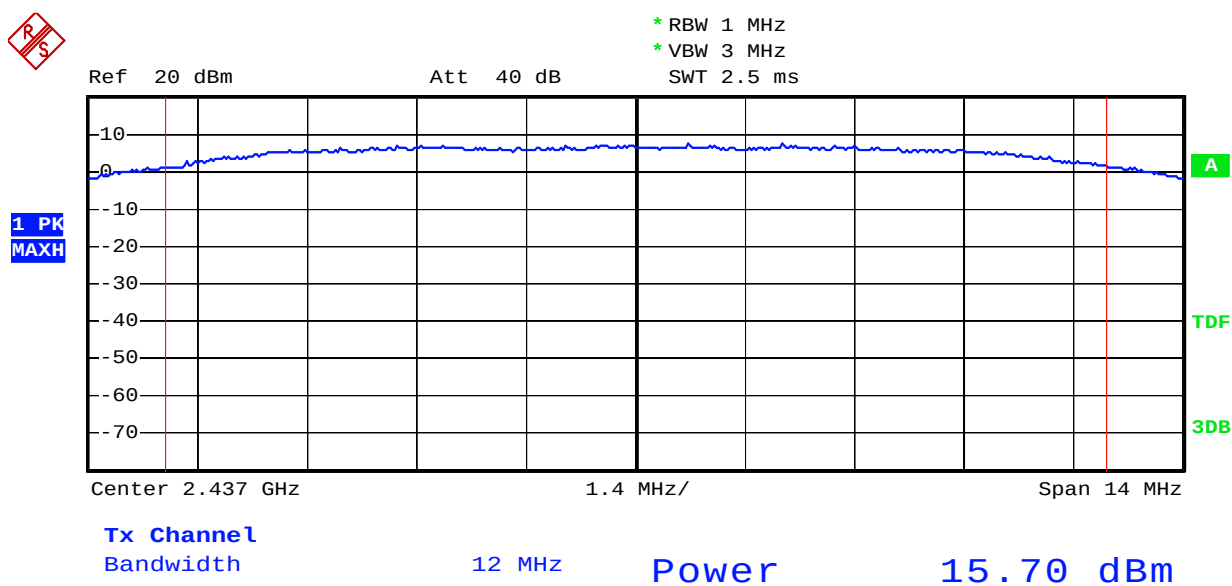
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



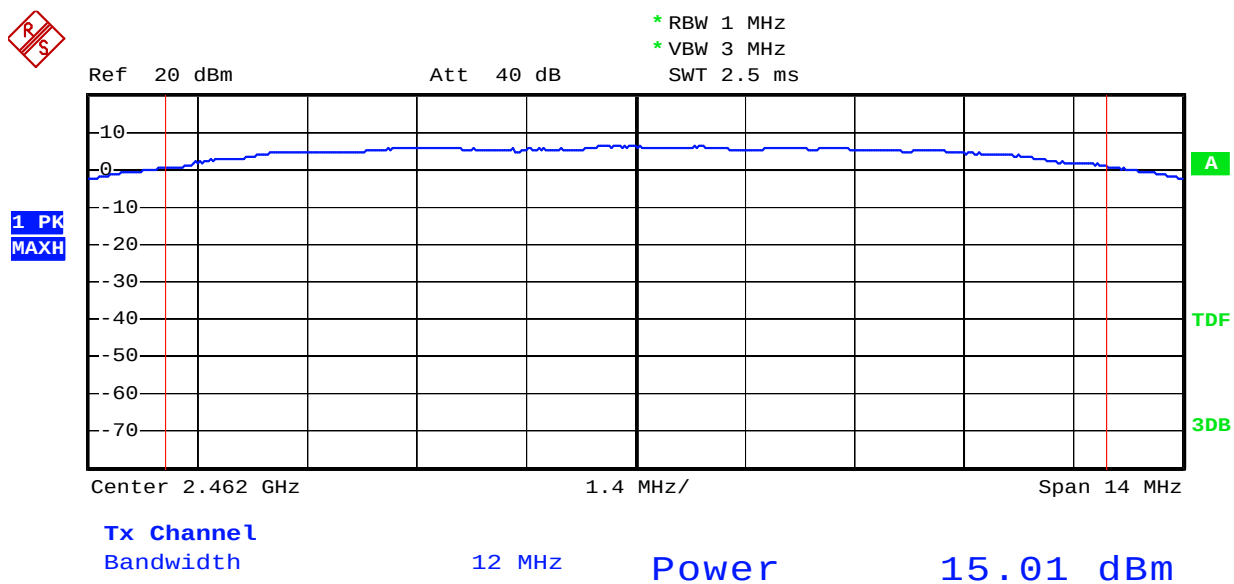
Date: 14.JUN.2012 18:36:50

802.11b Channel Middle 2437MHz



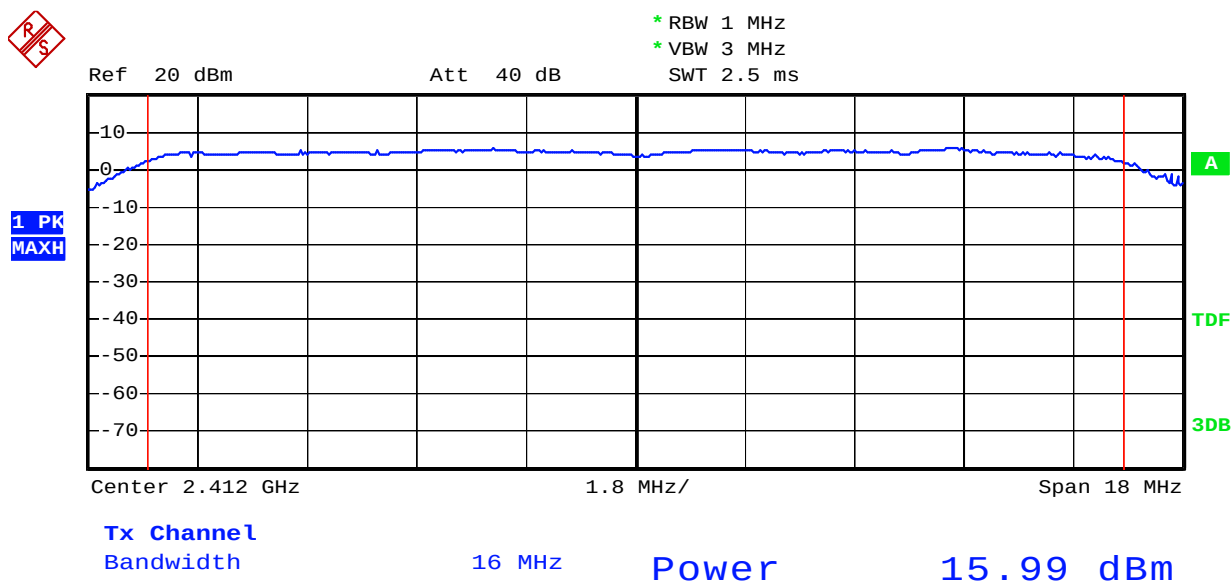
Date: 14.JUN.2012 18:36:29

802.11b Channel High 2462MHz



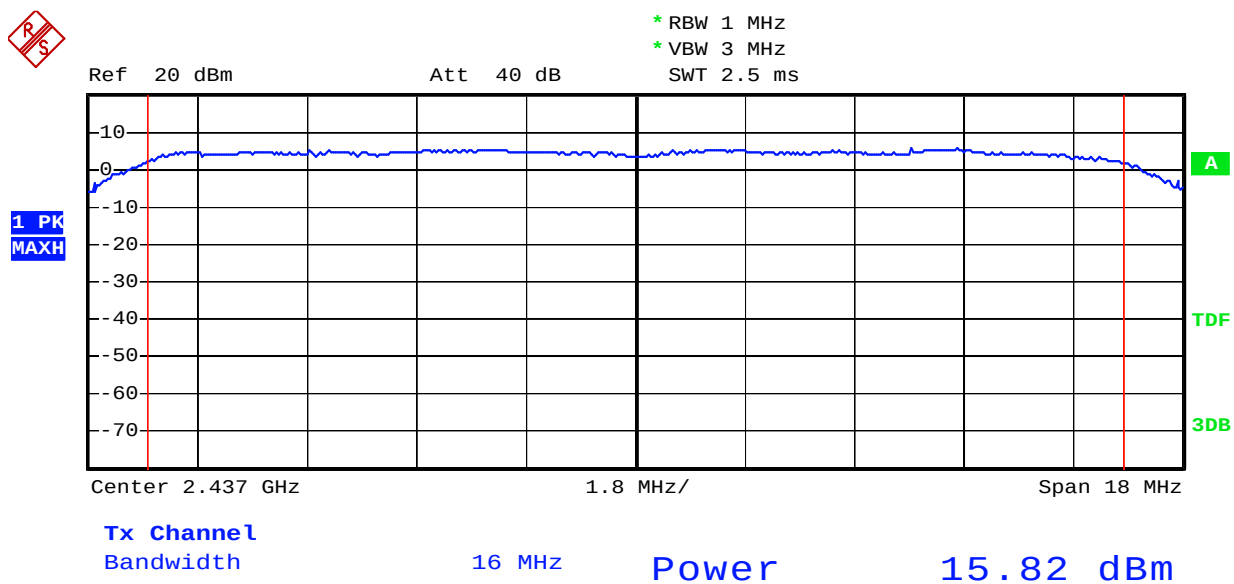
Date: 14.JUN.2012 18:35:52

802.11g Channel Low 2412MHz



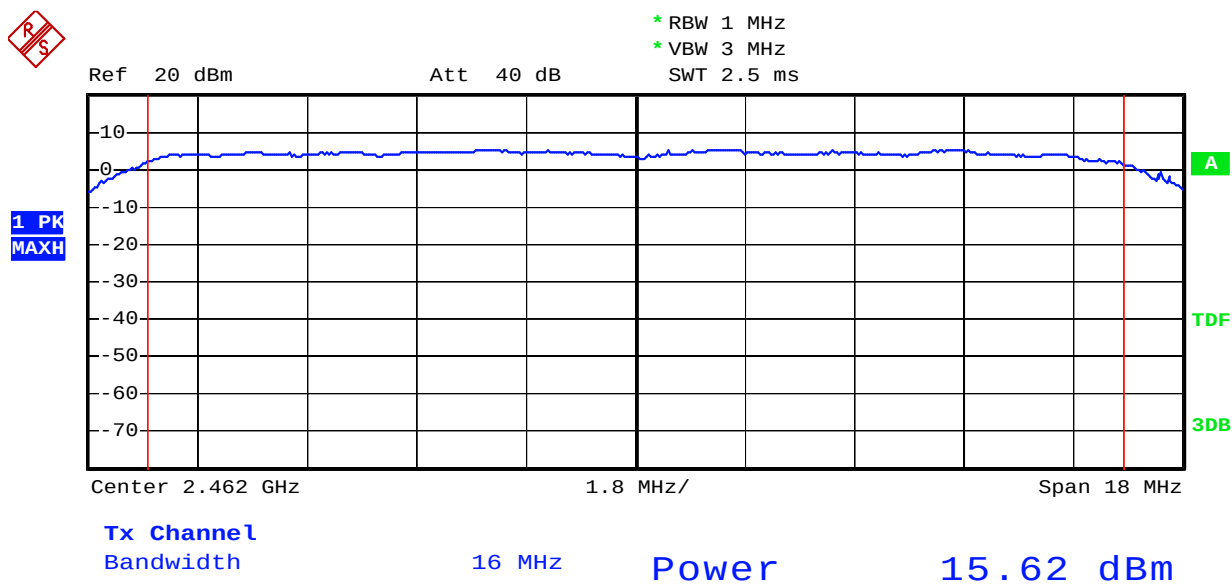
Date: 14.JUN.2012 18:21:32

802.11g Channel Middle 2437MHz



Date: 14.JUN.2012 18:30:14

802.11g Channel High 2462MHz



Date: 14.JUN.2012 18:31:04

7. POWER SPECTRAL DENSITY MEASUREMENT

7.1. Block Diagram of Test Setup



(EUT: Wi-Spi Intruder)

7.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.3.1. Wi-Spi Intruder (EUT)

Model Number	:	44074
Serial Number	:	N/A
Manufacturer	:	Interactive Toy Concepts Limited

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Measurement Procedure PKPSD:

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 100 kHz.
3. Set the VBW $\geq$ 300 kHz.
4. Set the span to 5-30 % greater than the EBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
10. Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3 \text{ kHz}/100 \text{ kHz} = -15.2 \text{ dB})$.
11. The resulting peak PSD level must be $\leq$ 8 dBm.

7.5.3. Measurement the maximum power spectral density.

7.6.Test Result

PASS.

Date of Test:	June 14-27, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Apple

The test was performed with 802.11b

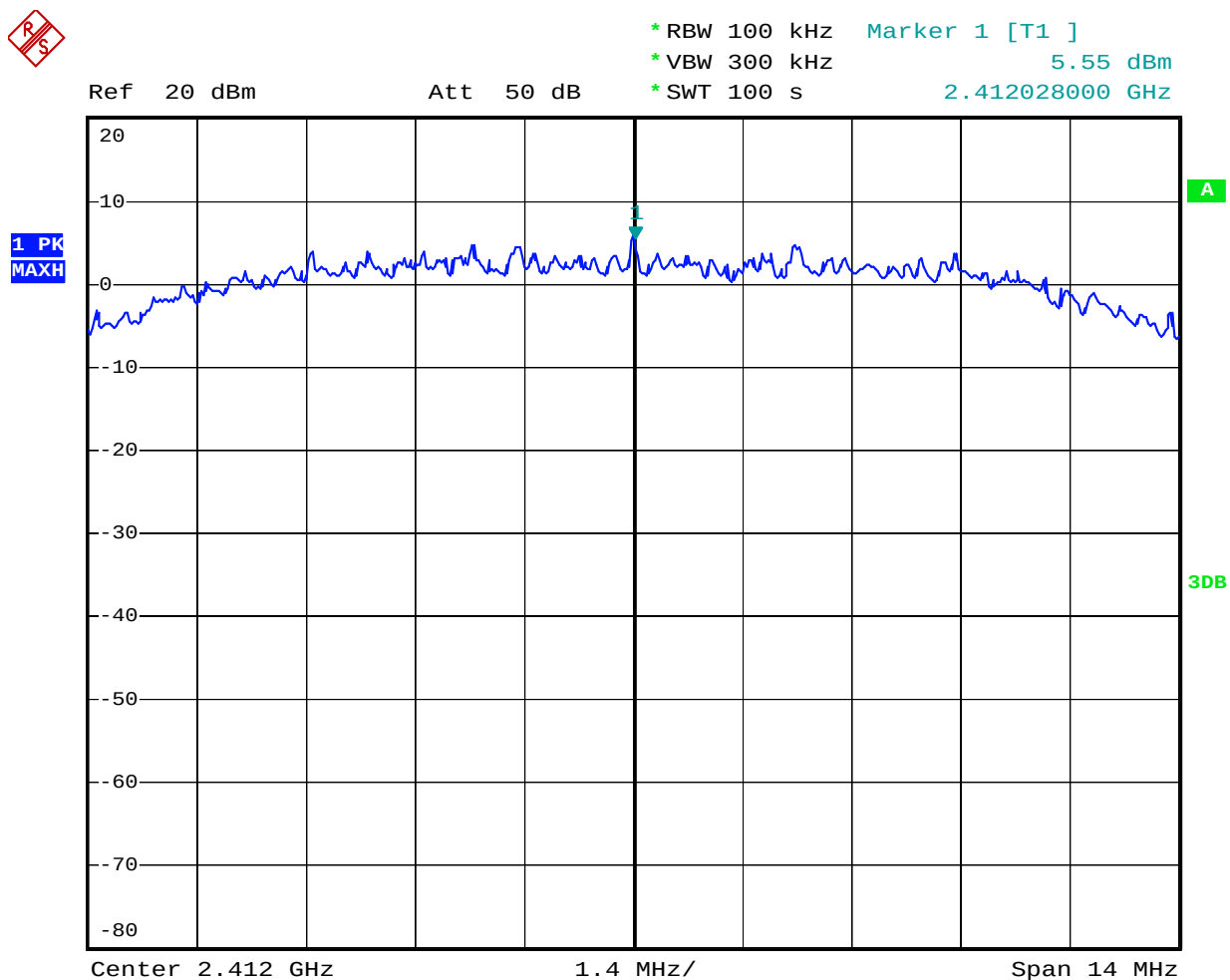
Channel	Frequency (MHz)	Power Spectral Density(dBm/100 kHz)	BWCF factor (100kHz to 3kHz)	Power Spectral Density(dBm/3 kHz)	Limits (dBm)
Low	2412	5.55	-15.2	-9.65	8 dBm
Middle	2437	5.92	-15.2	-9.28	8 dBm
High	2462	4.81	-15.2	-10.39	8 dBm

The test was performed with 802.11g

Channel	Frequency (MHz)	Power Spectral Density(dBm/100 kHz)	BWCF factor (100kHz to 3kHz)	Power Spectral Density(dBm/3 kHz)	Limits (dBm)
Low	2412	2.29	-15.2	-12.91	8 dBm
Middle	2437	1.45	-15.2	-13.75	8 dBm
High	2462	0.28	-15.2	-14.92	8 dBm

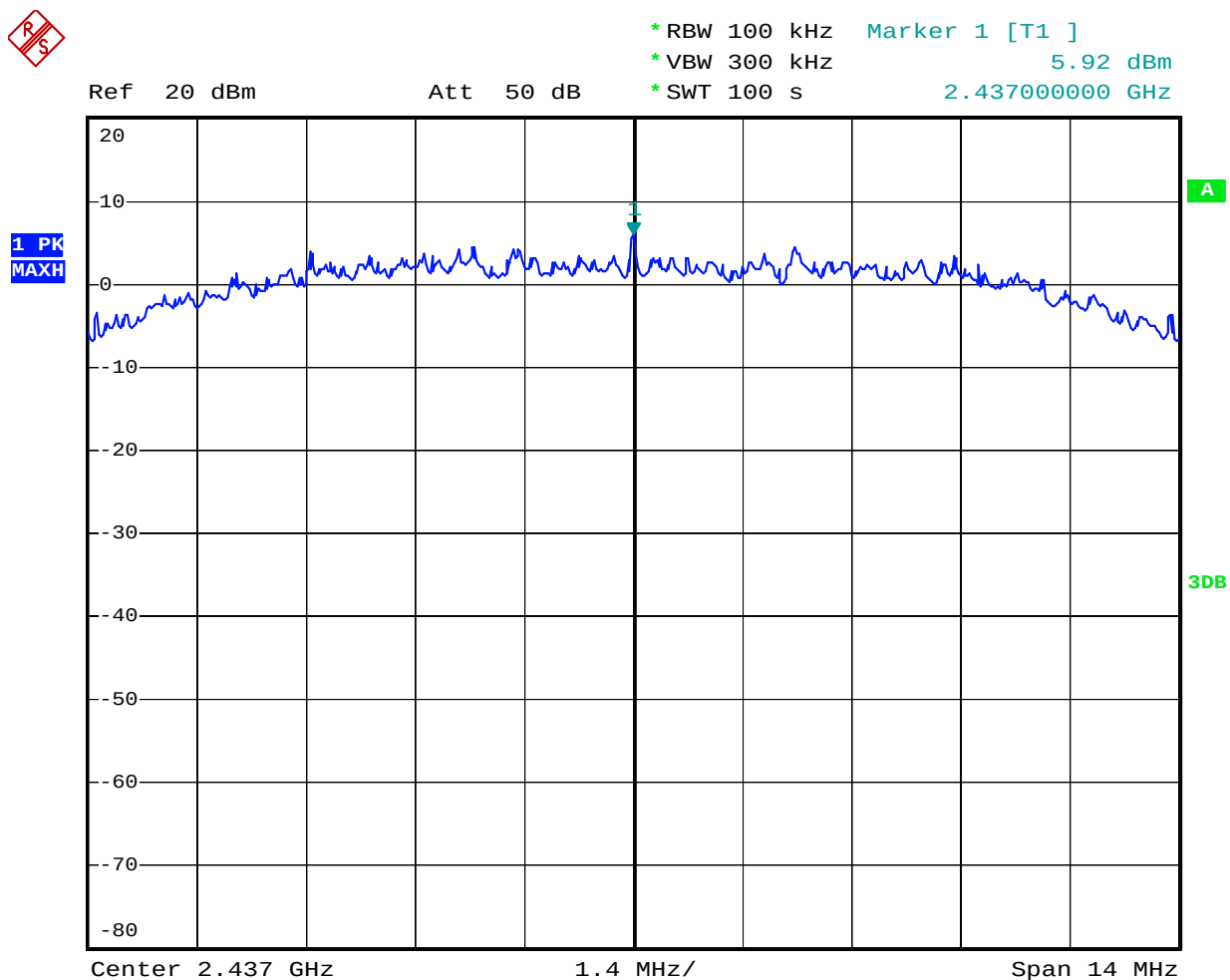
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



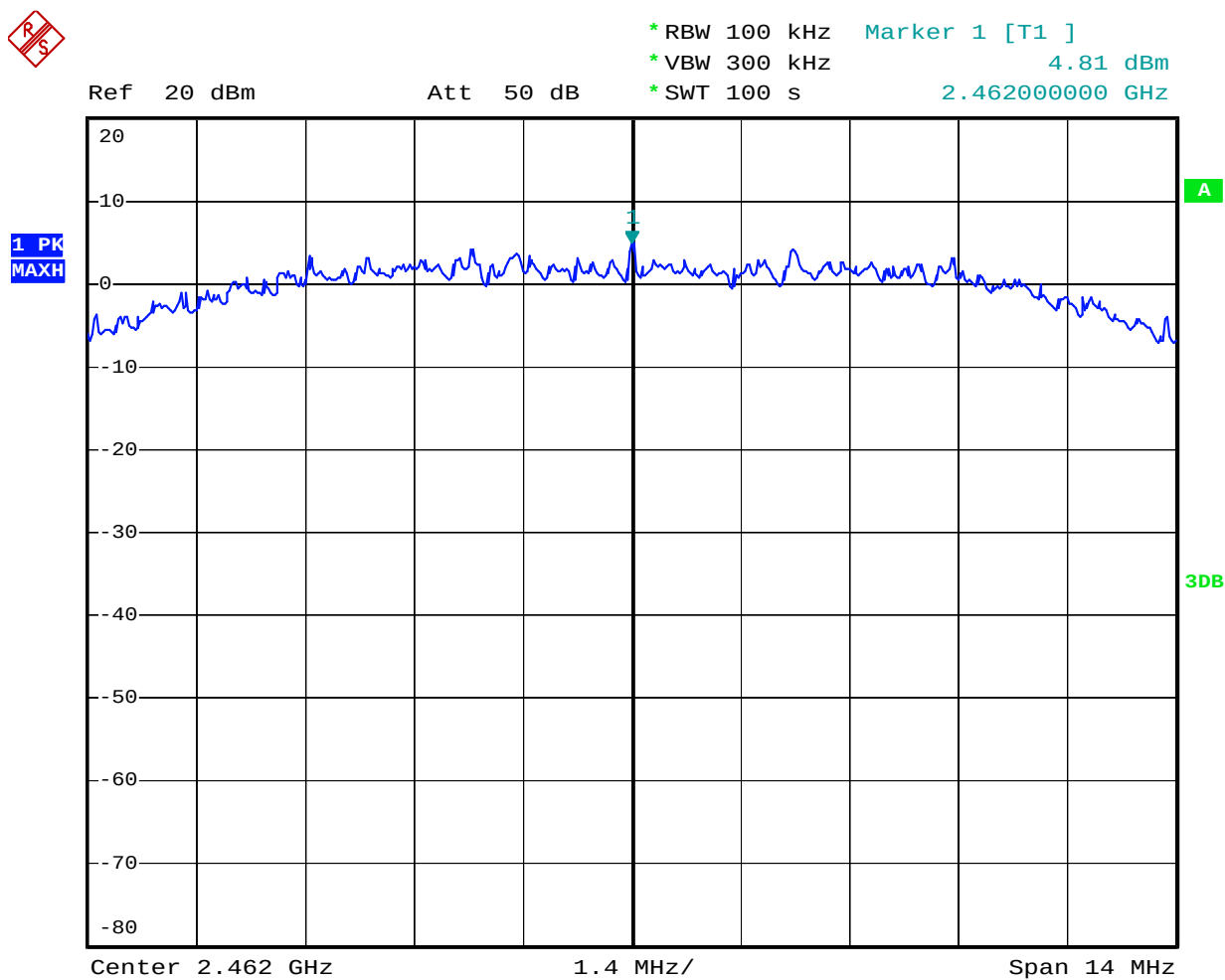
Date: 27.JUN.2012 09:26:46

802.11b Channel Middle 2437MHz



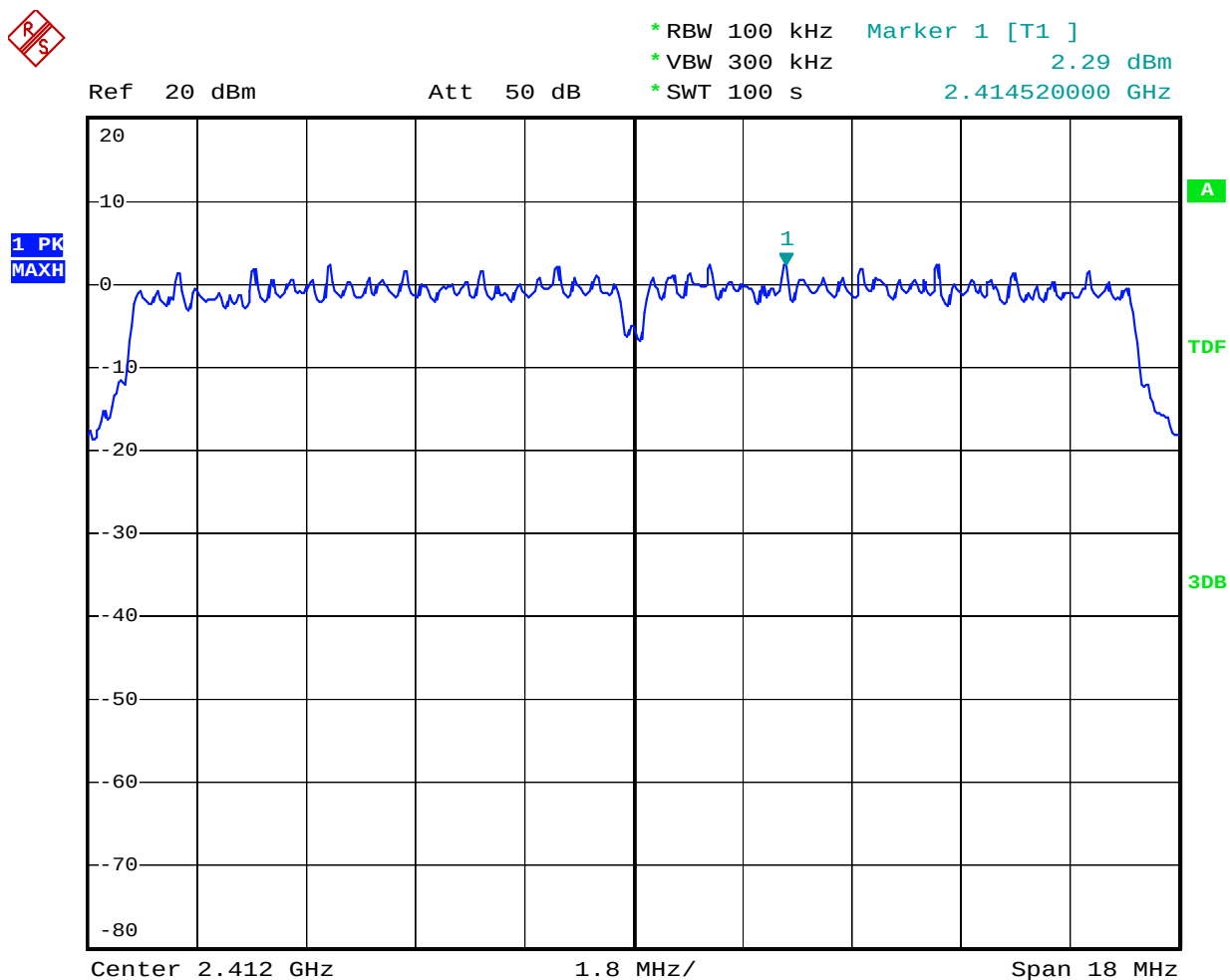
Date: 27.JUN.2012 09:30:28

802.11b Channel High 2462MHz

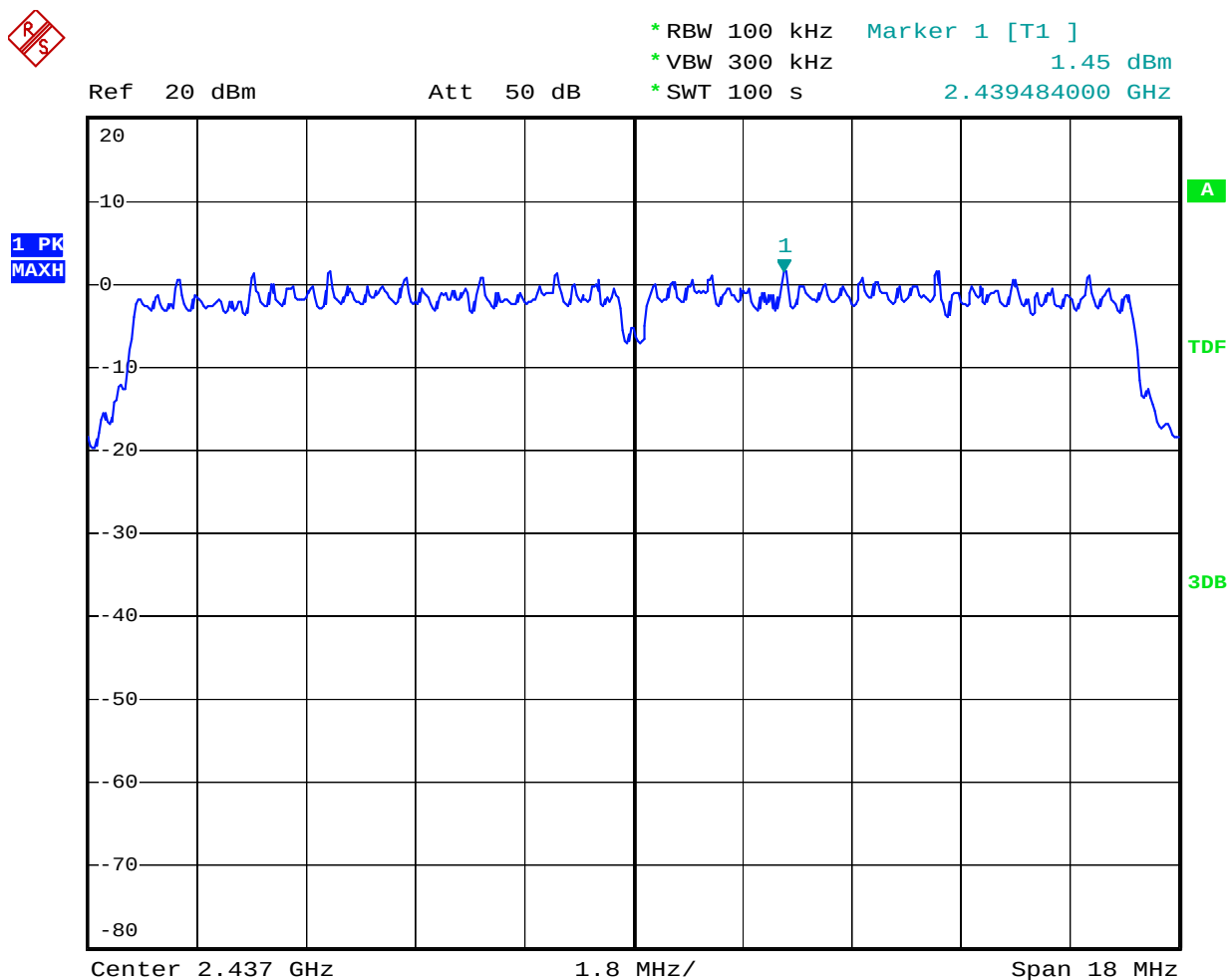


Date: 27.JUN.2012 09:34:11

802.11g Channel Low 2412MHz

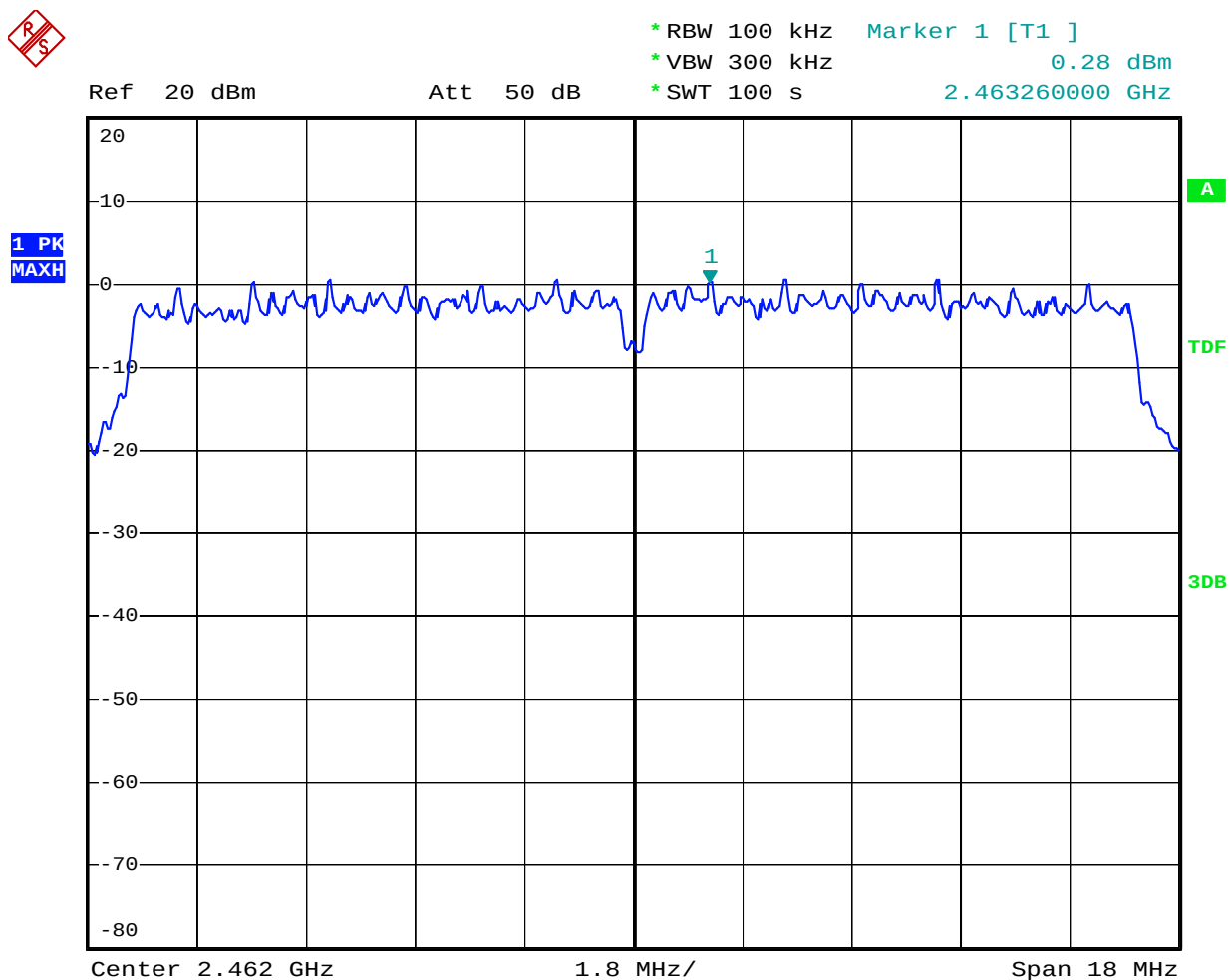


802.11g Channel Middle 2437MHz



Date: 14.JUN.2012 19:15:39

802.11g Channel High 2462MHz



Date: 14.JUN.2012 19:25:40

8. BAND EDGE COMPLIANCE TEST

8.1. Block Diagram of Test Setup



(EUT: Wi-Spi Intruder)

8.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

8.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.3.1. Wi-Spi Intruder (EUT)

Model Number	:	44074
Serial Number	:	N/A
Manufacturer	:	Interactive Toy Concepts Limited

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2462MHz TX frequency to transmit.

8.5. Test Procedure

Conducted Band Edge:

8.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

8.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

Radiate Band Edge:

8.5.3. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.

8.5.4. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

8.5.5. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

8.5.6. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

RBW=1MHz, VBW=1MHz

8.5.7. The band edges was measured and recorded.

8.6.Test Result

Pass**Conducted test**

Date of Test:	June 14, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Apple

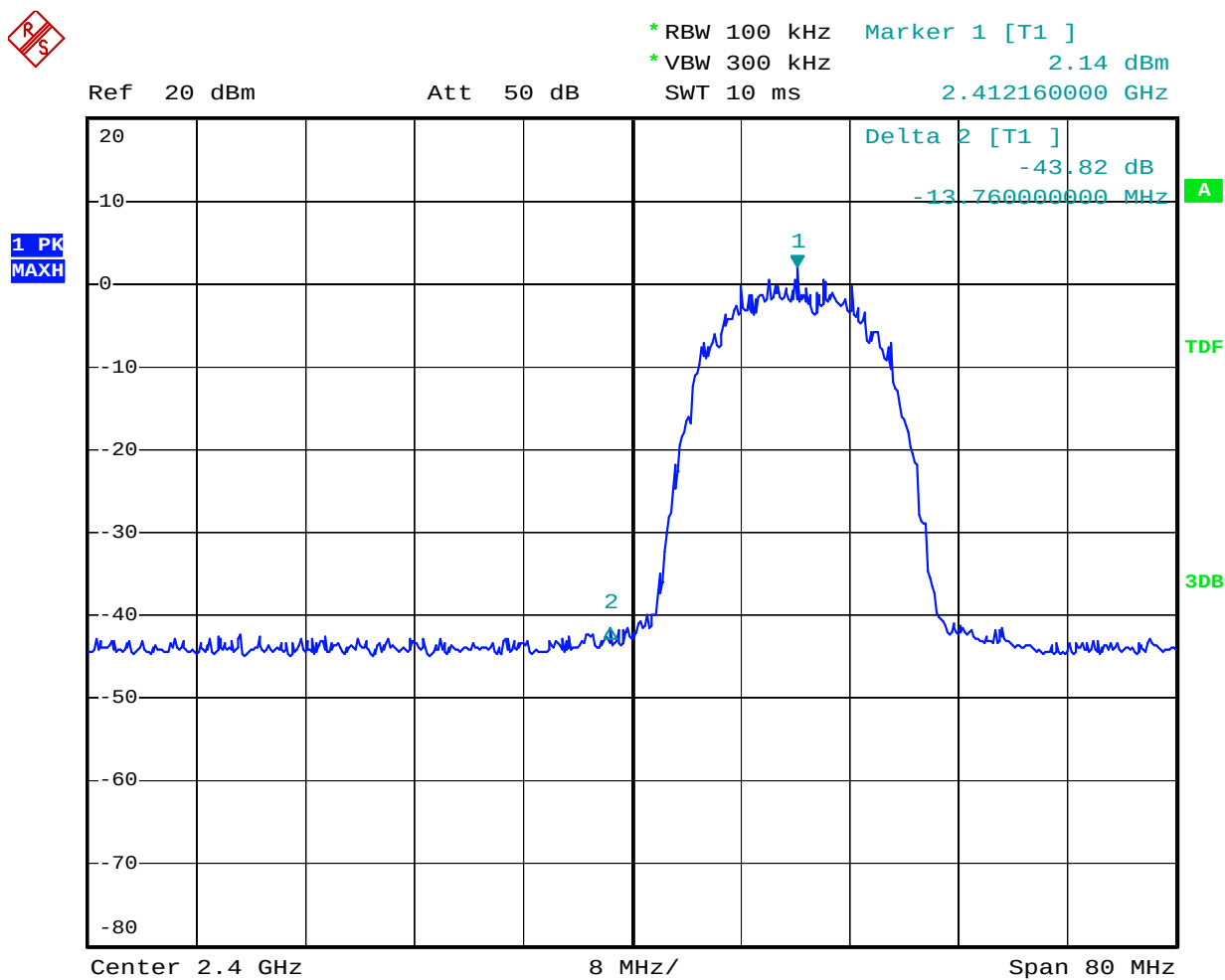
The test was performed with 802.11b

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	43.82	> 20dBc
2462	47.65	> 20dBc

The test was performed with 802.11g

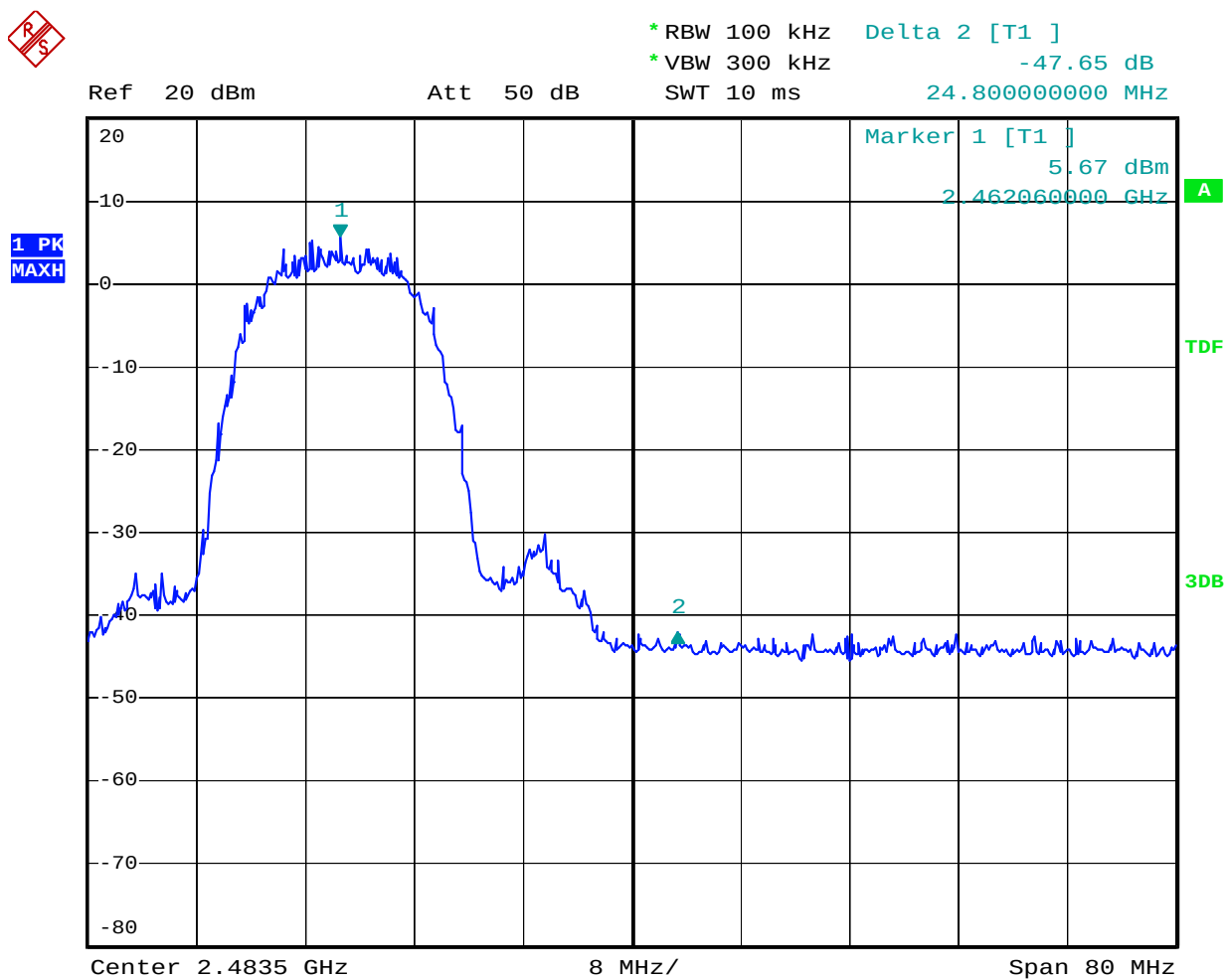
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	37.52	> 20dBc
2462	41.84	> 20dBc

802.11b Channel Low 2412MHz



Date: 14.JUN.2012 18:46:41

802.11b Channel High 2462MHz



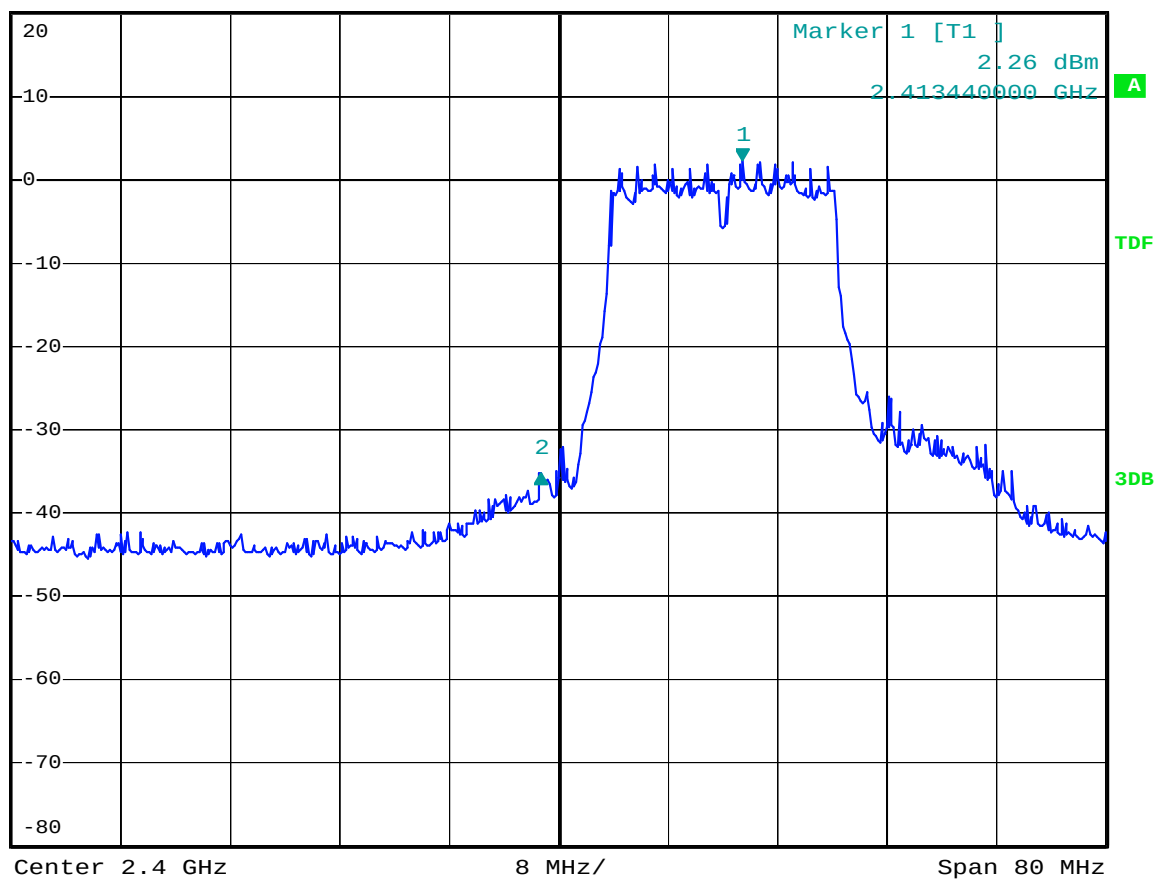
Date: 14.JUN.2012 19:04:46

802.11g Channel Low 2412MHz



* RBW 100 kHz Delta 2 [T1]
 * VBW 300 kHz -37.52 dB
 Ref 20 dBm Att 50 dB SWT 10 ms -14.720000000 MHz

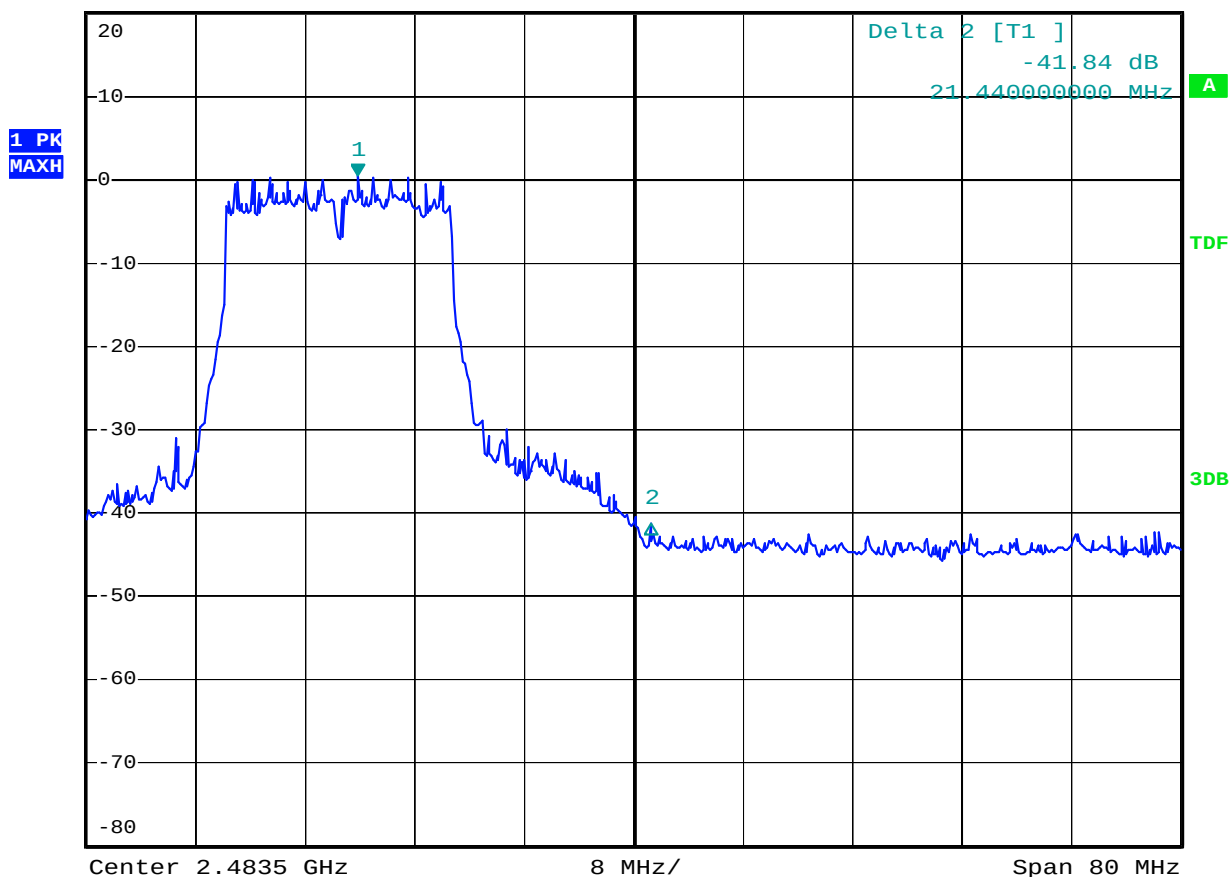
1 PK
 MAXH



802.11g Channel High 2462MHz



* RBW 100 kHz Marker 1 [T1]
 * VBW 300 kHz 0.50 dBm
 Ref 20 dBm Att 50 dB SWT 10 ms 2.463340000 GHz



Radiated Band Edge Result

Date of Test:	June 7, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	DC 3.7V
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Apple

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	38.13	46.23	-7.81	30.32	38.42	54	74	-23.68	-35.58	Vertical
2353.727	38.36	50.47	-7.77	30.59	42.70	54	74	-23.41	-31.30	
2390.000	34.64	45.58	-7.53	27.11	38.05	54	74	-26.89	-35.95	
2310.000	37.84	45.58	-7.81	30.03	37.77	54	74	-23.97	-36.23	Horizontal
2369.808	39.58	49.66	-7.66	31.92	42.00	54	74	-22.08	-32.00	
2390.000	34.61	43.96	-7.53	27.08	36.43	54	74	-26.92	-37.57	

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

3. Display the measurement of peak values.

Date of Test: June 7, 2012

Temperature: 25°C

EUT: Wi-Spi Intruder

Humidity: 50%

Model No.: 44074

Power Supply: DC 3.7V

Test Mode: 802.11b Channel High 2462MHz

Test Engineer: Apple

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	41.57	47.78	-7.37	34.20	41.41	54	74	-19.80	-32.59	Vertical
2489.249	41.48	47.65	-7.39	34.09	40.26	54	74	-19.91	-33.74	
2500.000	39.67	47.55	-7.40	32.27	40.15	54	74	-21.73	-33.85	
2483.500	40.36	47.26	-7.37	32.99	39.89	54	74	-21.01	-34.11	Horizontal
2489.883	40.47	47.86	-7.39	33.08	40.47	54	74	-20.92	-33.53	
2500.000	38.15	46.16	-7.40	30.75	38.76	54	74	-23.25	-35.24	

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Date of Test:	June 7, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Apple

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	36.58	45.50	-7.81	28.77	37.69	54	74	-25.23	-36.31	Vertical
2351.916	38.67	49.53	-7.78	30.89	41.75	54	74	-23.11	-32.25	
2390.000	35.47	46.68	-7.53	27.94	39.15	54	74	-26.06	-34.85	
2310.000	37.18	44.14	-7.81	29.37	36.33	54	74	-24.63	-37.67	Horizontal
2350.245	37.68	49.27	-7.79	29.89	41.48	54	74	-24.11	-32.52	
2390.000	36.88	45.54	-7.53	29.35	38.01	54	74	-24.65	-35.99	

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$
3. Display the measurement of peak values.

Date of Test:	June 7, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Apple

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	51.31	60.27	-7.37	43.94	52.90	54	74	-10.06	-21.10	Vertical
2492.261	47.36	55.94	-7.39	39.97	48.55	54	74	-14.03	-25.45	
2500.000	39.41	49.18	-7.40	32.01	41.78	54	74	-21.99	-32.22	
2483.500	49.35	59.60	-7.37	41.98	52.23	54	74	-12.02	-21.77	Horizontal
2493.530	44.92	55.35	-7.39	37.53	47.96	54	74	-16.47	-26.04	
2500.000	40.17	47.53	-7.40	32.77	40.13	54	74	-21.23	-33.87	

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.



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Site: 966 chamber

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Fax:+86-0755-26503396

Job No.: STAR #1306

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

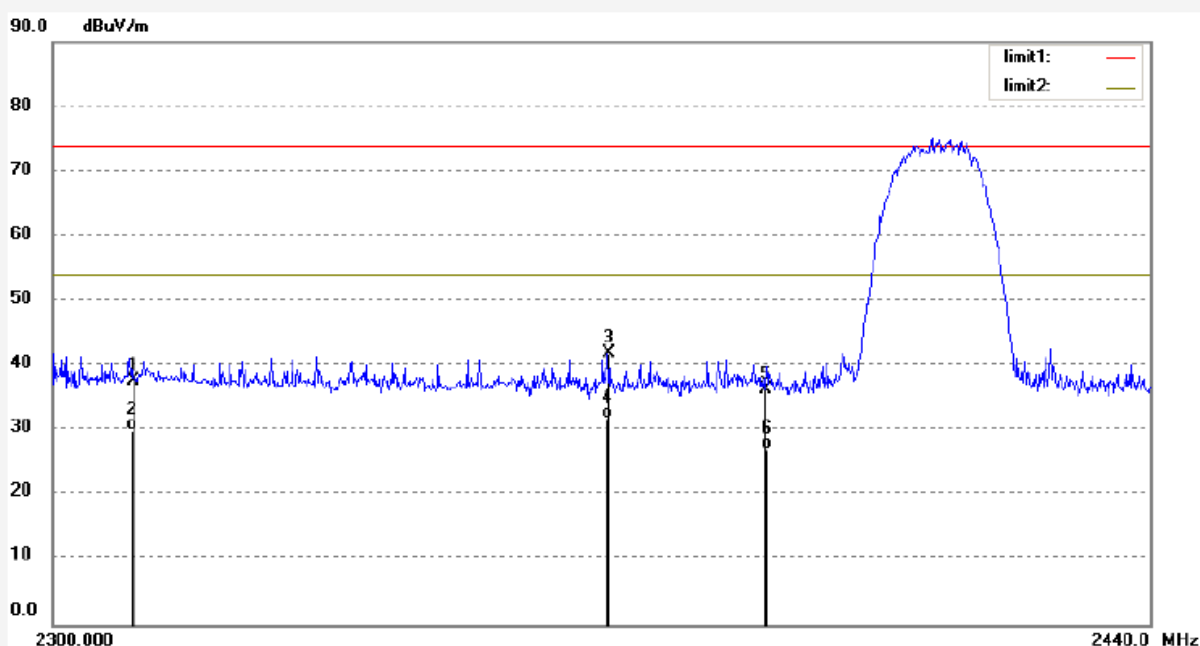
Date: 2012-6-7

Time: 12:58:07

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	45.58	-7.81	37.77	74.00	-36.23	peak			
2	2310.000	37.84	-7.81	30.03	54.00	-23.97	AVG			
3	2369.808	49.66	-7.66	42.00	74.00	-32.00	peak			
4	2369.808	39.58	-7.66	31.92	54.00	-22.08	AVG			
5	2390.000	43.96	-7.53	36.43	74.00	-37.57	peak			
6	2390.000	34.61	-7.53	27.08	54.00	-26.92	AVG			



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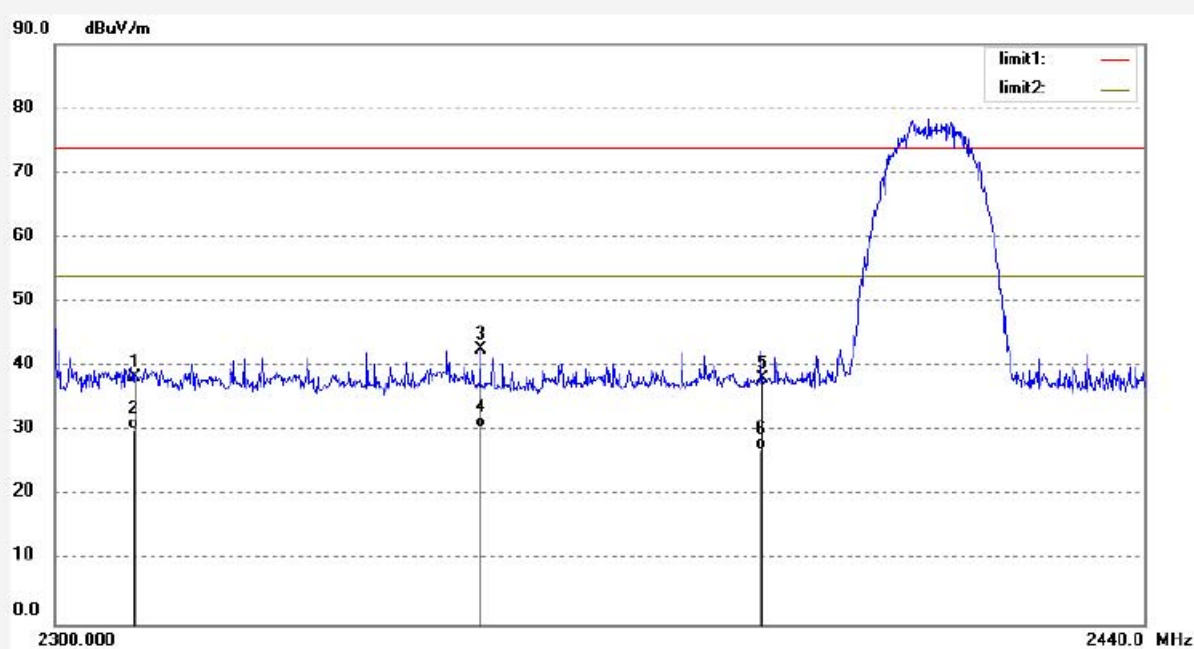
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR #1307
Standard: FCC 15C PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Wi-Spi Intruder
Mode: TX Channel 1(802.11b)
Model: 44074
Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical
Power Source: DC 3.7V
Date: 2012-6-7
Time: 12:59:33
Engineer Signature:
Distance: 3m

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	46.23	-7.81	38.42	74.00	-35.58	peak			
2	2310.000	38.13	-7.81	30.32	54.00	-23.68	AVG			
3	2353.727	50.47	-7.77	42.70	74.00	-31.30	peak			
4	2353.727	38.36	-7.77	30.59	54.00	-23.41	AVG			
5	2390.000	45.58	-7.53	38.05	74.00	-35.95	peak			
6	2390.000	34.64	-7.53	27.11	54.00	-26.89	AVG			


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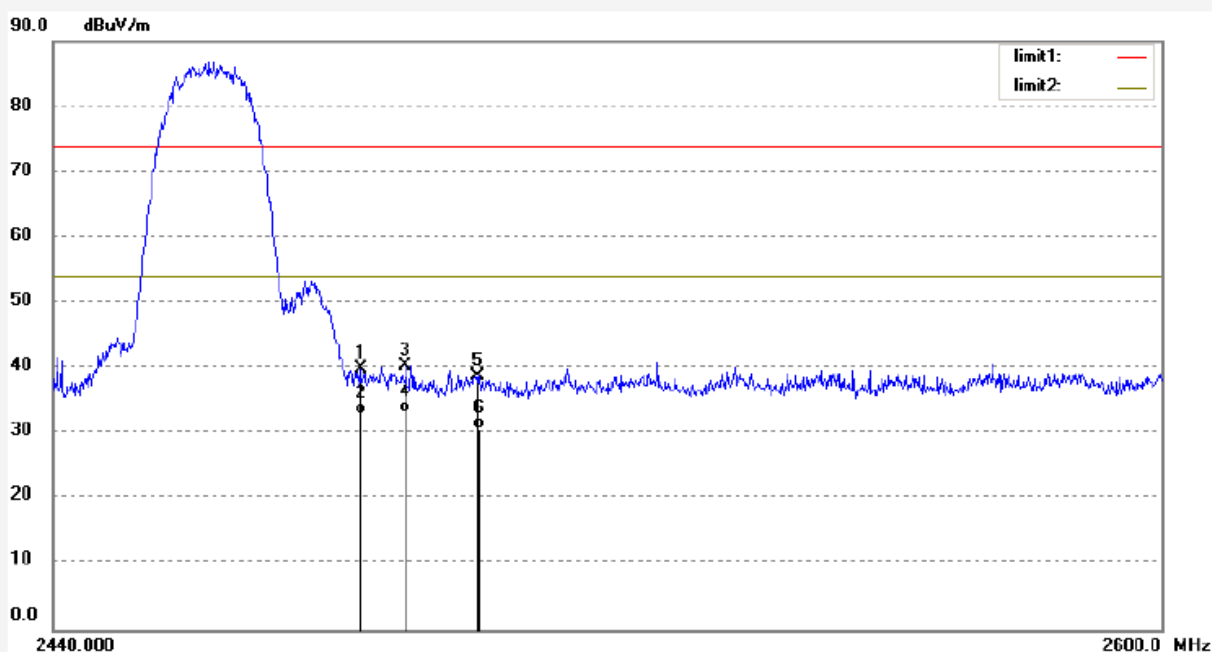
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR #1313
Standard: FCC 15C PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Wi-Spi Intruder
Mode: TX Channel 11(802.11b)
Model: 44074
Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2012-6-7
Time: 13:08:57
Engineer Signature:
Distance: 3m

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	47.26	-7.37	39.89	74.00	-34.11	peak			
2	2483.500	40.36	-7.37	32.99	54.00	-21.01	AVG			
3	2489.883	47.86	-7.39	40.47	74.00	-33.53	peak			
4	2489.883	40.47	-7.39	33.08	54.00	-20.92	AVG			
5	2500.000	46.16	-7.40	38.76	74.00	-35.24	peak			
6	2500.000	38.15	-7.40	30.75	54.00	-23.25	AVG			



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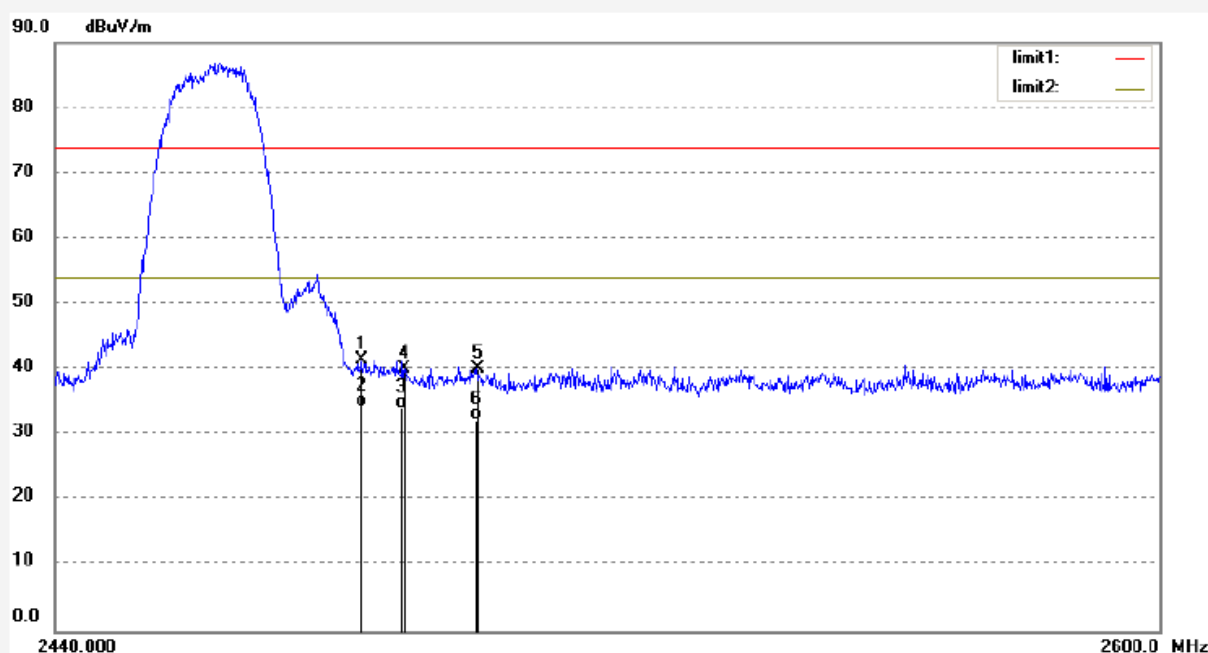
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR #1312
Standard: FCC 15C PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Wi-Spi Intruder
Mode: TX Channel 11(802.11b)
Model: 44074
Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical
Power Source: DC 3.7V
Date: 2012-6-7
Time: 13:07:48
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	48.78	-7.37	41.41	74.00	-32.59	peak			
2	2483.500	41.57	-7.37	34.20	54.00	-19.80	AVG			
3	2489.249	41.48	-7.39	34.09	54.00	-19.91	AVG			
4	2489.249	47.65	-7.39	40.26	74.00	-33.74	peak			
5	2500.000	47.55	-7.40	40.15	74.00	-33.85	peak			
6	2500.000	39.67	-7.40	32.27	54.00	-21.73	AVG			


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Job No.: STAR #1309

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

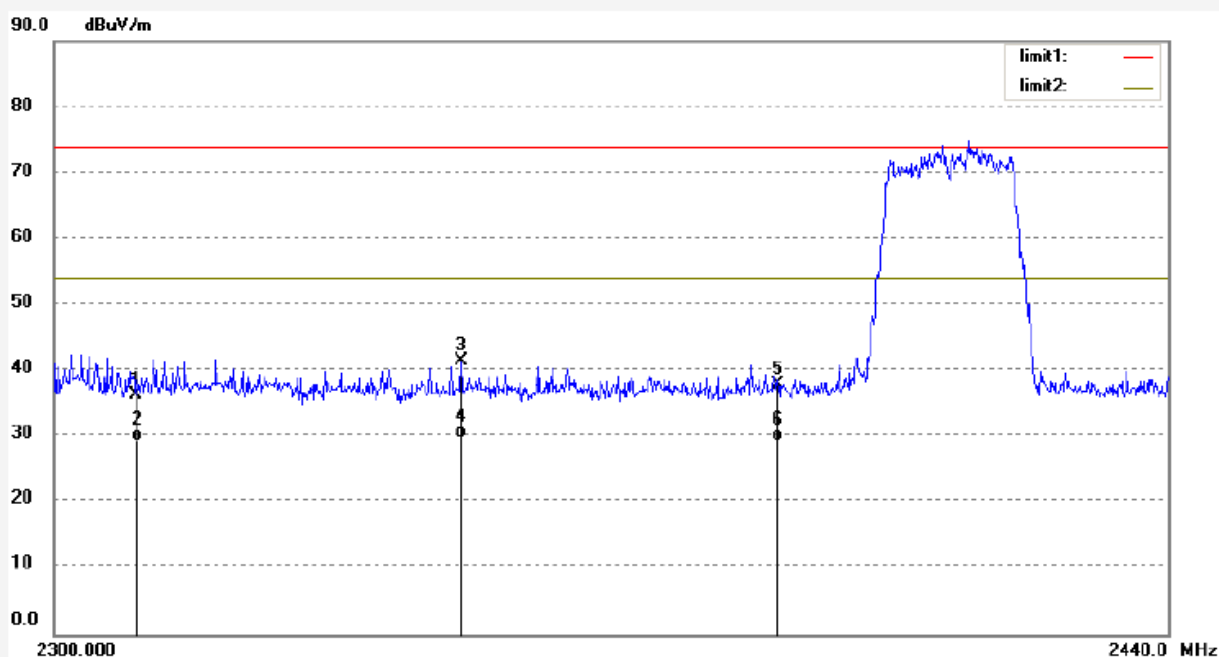
Date: 2012-6-7

Time: 13:02:34

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	44.14	-7.81	36.33	74.00	-37.67	peak			
2	2310.000	37.18	-7.81	29.37	54.00	-24.63	AVG			
3	2350.245	49.27	-7.79	41.48	74.00	-32.52	peak			
4	2350.245	37.68	-7.79	29.89	54.00	-24.11	AVG			
5	2390.000	45.54	-7.53	38.01	74.00	-35.99	peak			
6	2390.000	36.88	-7.53	29.35	54.00	-24.65	AVG			


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Job No.: STAR #1308

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

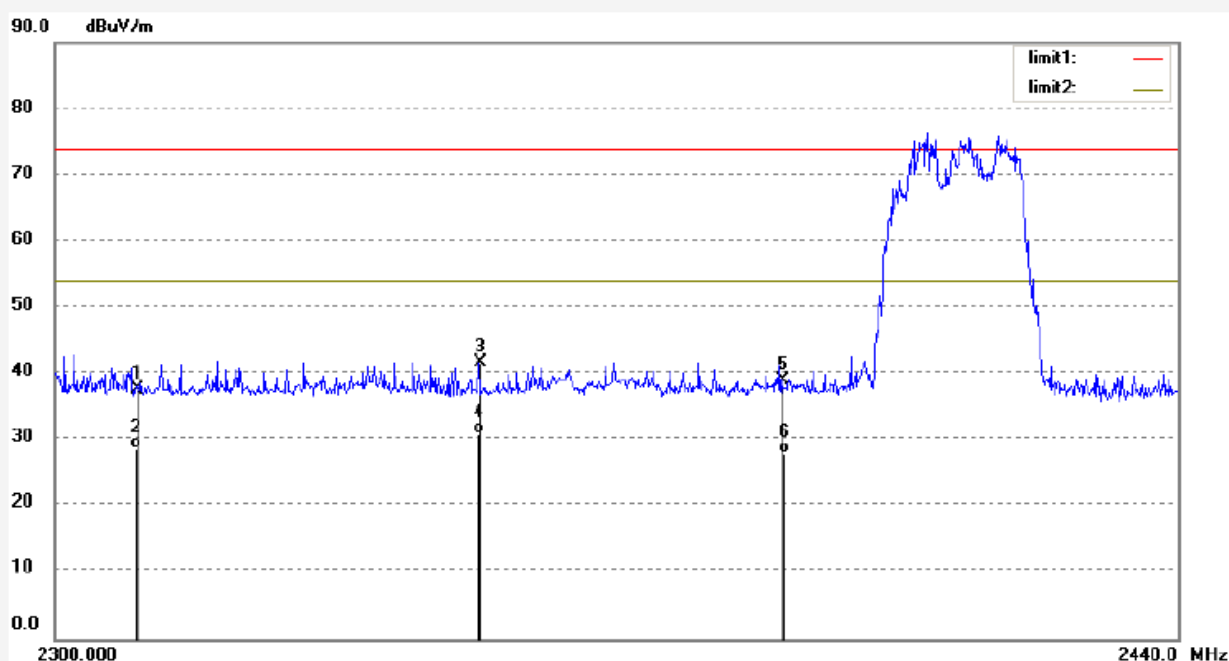
Date: 2012-6-7

Time: 13:01:14

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	45.50	-7.81	37.69	74.00	-36.31	peak			
2	2310.000	36.58	-7.81	28.77	54.00	-25.23	AVG			
3	2351.916	49.53	-7.78	41.75	74.00	-32.25	peak			
4	2351.916	38.67	-7.78	30.89	54.00	-23.11	AVG			
5	2390.000	46.68	-7.53	39.15	74.00	-34.85	peak			
6	2390.000	35.47	-7.53	27.94	54.00	-26.06	AVG			



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Job No.: STAR #1310

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

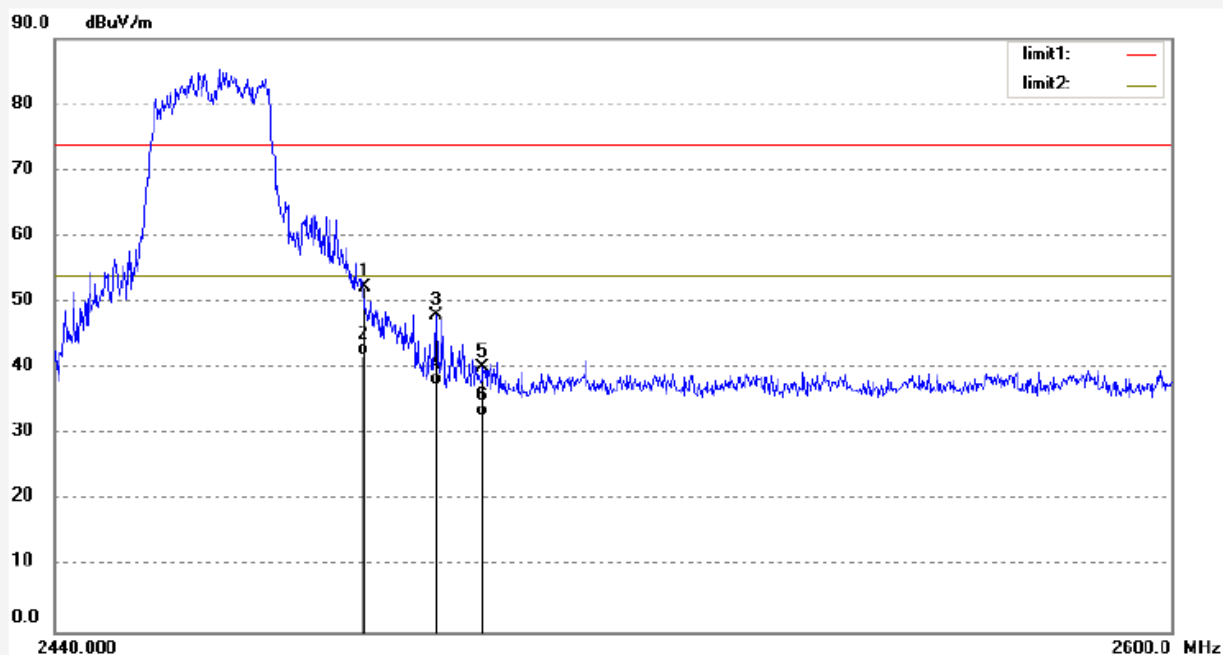
Date: 2012-6-7

Time: 13:04:27

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	59.60	-7.37	52.23	74.00	-21.77	peak			
2	2483.500	49.35	-7.37	41.98	54.00	-12.02	AVG			
3	2493.530	55.35	-7.39	47.96	74.00	-26.04	peak			
4	2493.530	44.92	-7.39	37.53	54.00	-16.47	AVG			
5	2500.000	47.53	-7.40	40.13	74.00	-33.87	peak			
6	2500.000	40.17	-7.40	32.77	54.00	-21.23	AVG			



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Job No.: STAR #1311

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

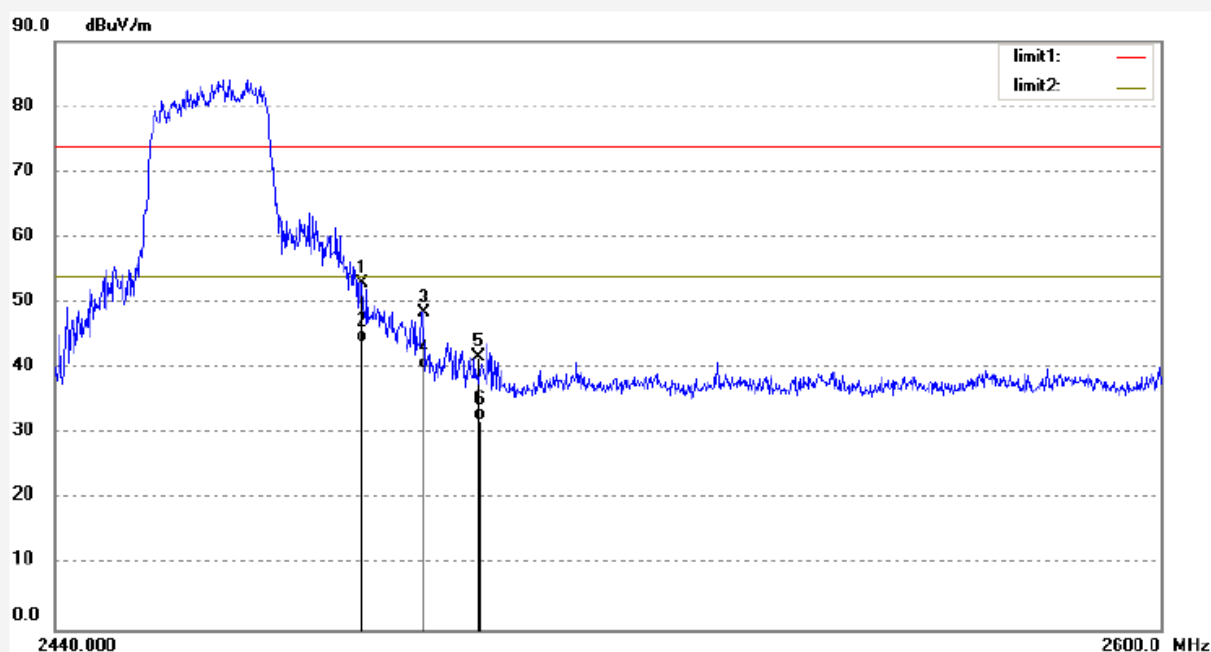
Date: 2012-6-7

Time: 13:05:37

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949

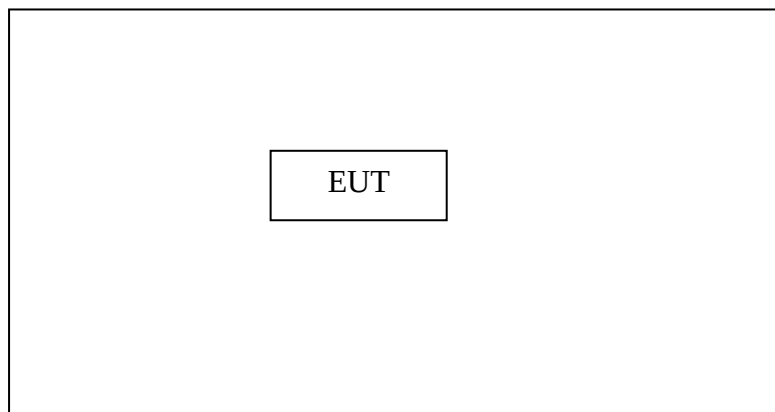


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	60.27	-7.37	52.90	74.00	-21.10	peak			
2	2483.500	51.31	-7.37	43.94	54.00	-10.06	AVG			
3	2492.261	55.94	-7.39	48.55	74.00	-25.45	peak			
4	2492.261	47.36	-7.39	39.97	54.00	-14.03	AVG			
5	2500.000	49.18	-7.40	41.78	74.00	-32.22	peak			
6	2500.000	39.41	-7.40	32.01	54.00	-21.99	AVG			

9. RADIATED SPURIOUS EMISSION TEST

9.1. Block Diagram of Test Setup

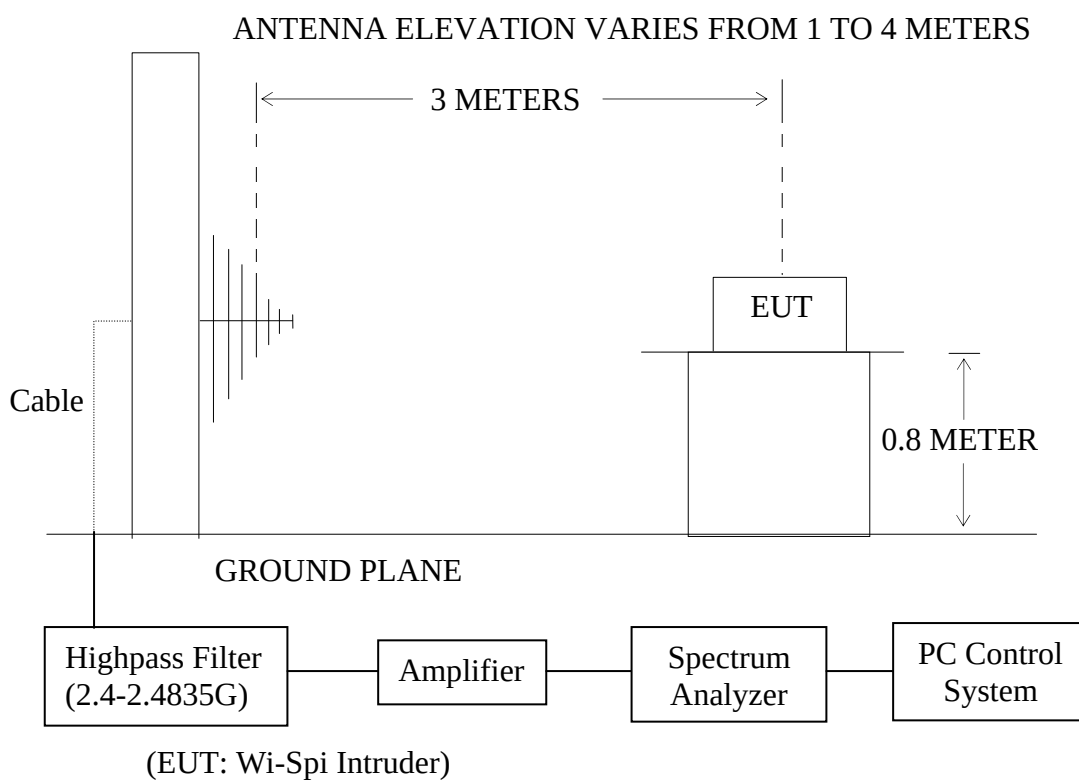
9.1.1. Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

(EUT: Wi-Spi Intruder)

9.1.2. Semi-Anechoic Chamber Test Setup Diagram



9.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

9.3.Restricted bands of operation

9.3.1.FCC Part 15.205 Restricted bands of operation

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

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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

²Above 38.6

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

9.4.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4.1.Wi-Spi Intruder (EUT)

Model Number : 44074
 Serial Number : N/A
 Manufacturer : Interactive Toy Concepts Limited

9.5.Operating Condition of EUT

9.5.1.Setup the EUT and simulator as shown as Section 9.1.

9.5.2.Turn on the power of all equipment.

9.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

9.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement. The EUT was tested in 3 orthogonal planes. The worst-case data rate for this channel to be 11Mbps for 802.11b mode and 54Mbps for 802.11g mode, based on previous with 802.11 WLAN product design architectures.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9kHz to 25GHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Between the antenna and Amplifier have a Highpass Filter (Restricted bands of operation is 2.4-2.4835G), setup show to 9.1.2

9.7.The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	June 1, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	DC 3.7V
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Apple

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
250.0000	18.37	17.53	35.90	46.00	-10.10	Vertical
360.0000	21.27	21.24	42.51	46.00	-3.49	Vertical
600.0000	15.23	25.53	40.76	46.00	-5.24	Vertical
260.0000	20.05	18.60	43.65	46.00	-2.35	Horizontal
360.0000	23.03	21.24	44.27	46.00	-1.73	Horizontal
840.0000	16.04	28.36	44.40	46.00	-1.60	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4824.000	51.27	52.36	-0.19	51.08	52.17	54	74	-2.92	-21.83	Vertical
4824.000	46.97	48.06	-0.19	46.78	47.87	54	74	-7.22	-26.13	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

Date of Test:	June 1, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	DC 3.7V
Test Mode:	802.11b Channel Middle 2437MHz	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
360.0000	20.21	21.24	41.45	46.00	-4.55	Vertical
620.0000	15.18	26.06	41.24	46.00	-4.76	Vertical
840.0000	12.07	28.36	40.43	46.00	-5.57	Vertical
260.0000	24.66	18.60	43.26	46.00	-2.74	Horizontal
360.0000	23.56	21.24	44.80	46.00	-1.20	Horizontal
840.0000	16.03	28.36	44.39	46.00	-1.61	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4874.000	49.81	55.62	0.09	49.90	55.71	54	74	-4.10	-18.29	Vertical
4874.000	47.71	54.55	0.09	47.80	54.64	54	74	-6.20	-19.36	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test:	June 1, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	DC 3.7V
Test Mode:	802.11b Channel High 2462MHz	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
360.0000	20.47	21.24	41.71	46.00	-4.29	Vertical
620.0000	15.41	26.06	41.47	46.00	-4.53	Vertical
840.0000	11.84	28.36	40.20	46.00	-5.80	Vertical
246.1237	25.34	17.19	42.53	46.00	-3.47	Horizontal
360.0000	23.40	21.24	44.64	46.00	-1.36	Horizontal
840.0000	15.42	28.36	43.78	46.00	-2.22	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4924.000	49.69	52.01	0.34	50.03	52.35	54	74	-3.97	-21.65	Vertical
49.24.000	45.96	51.68	0.34	46.30	52.02	54	74	-7.70	-21.98	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test:	June 1, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
360.0000	21.61	21.24	42.85	46.00	-3.15	Vertical
620.0000	14.36	26.06	40.42	46.00	-5.58	Vertical
840.0000	12.06	28.36	40.42	46.00	-5.58	Vertical
360.0000	23.43	21.24	44.67	46.00	-1.33	Horizontal
428.7959	21.01	23.01	44.02	46.00	-1.98	Horizontal
840.0000	16.19	28.36	44.55	46.00	-1.45	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4824.000	47.05	49.31	-0.19	46.86	49.12	54	74	-7.14	-4.88	Vertical
4824.000	45.15	47.30	-0.19	44.96	47.11	54	74	-9.04	-6.89	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test:	June 1, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel Middle 2437MHz	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
360.0000	20.24	21.24	41.48	46.00	-4.52	Vertical
630.0000	14.39	26.06	40.45	46.00	-5.55	Vertical
840.0000	11.45	28.36	39.81	46.00	-6.19	Vertical
246.0000	27.20	17.18	44.38	46.00	-1.62	Horizontal
354.6911	22.94	21.09	44.03	46.00	-1.97	Horizontal
827.1794	15.88	28.20	44.08	46.00	-1.92	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4874.000	47.71	54.63	0.09	47.80	54.72	54	74	-6.20	-19.28	Vertical
4874.000	50.17	52.95	0.09	50.26	53.04	54	74	-3.74	-0.96	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test:	June 1, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
354.6911	21.00	21.09	42.09	46.00	-3.91	Vertical
558.0788	15.67	25.35	41.02	46.00	-4.98	Vertical
590.3510	15.34	25.39	40.73	46.00	-5.27	Vertical
246.1237	27.72	17.19	44.91	46.00	-1.09	Horizontal
354.6911	23.52	21.09	44.61	46.00	-1.39	Horizontal
827.1794	16.17	28.20	44.37	46.00	-1.63	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4924.000	47.27	50.68	0.34	47.61	51.02	54	74	-6.39	-2.98	Vertical
4924.000	48.31	50.51	0.34	48.65	50.85	54	74	-5.35	-3.15	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1237

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

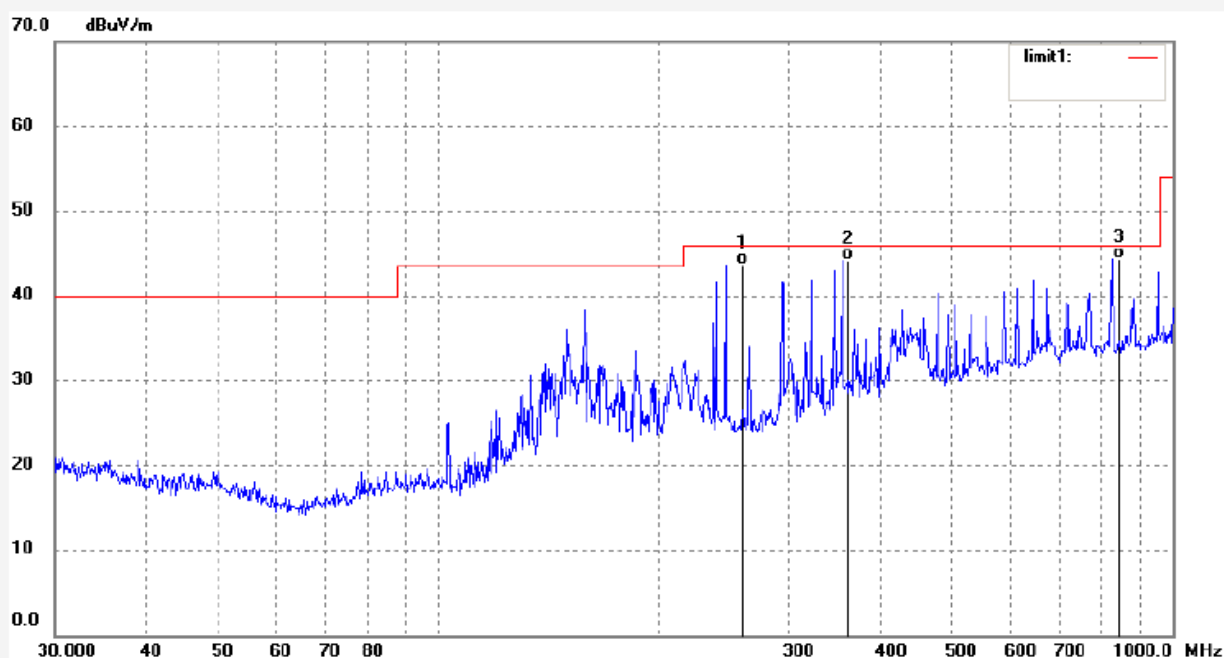
Date: 2012/06/01

Time: 23:26:57

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	260.0000	25.05	18.60	43.65	46.00	-2.35	QP			
2	360.0000	23.03	21.24	44.27	46.00	-1.73	QP			
3	840.0000	16.04	28.36	44.40	46.00	-1.60	QP			



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Job No.: STAR #1238

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

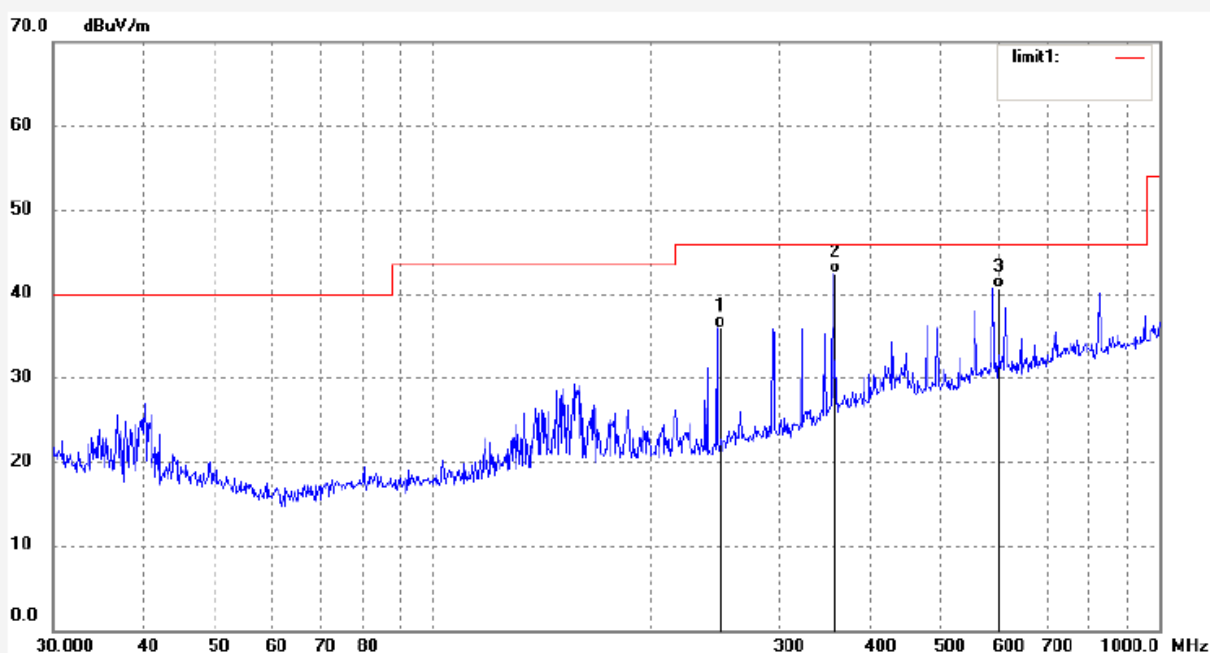
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Time: 23:30:19

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	250.0000	18.37	17.53	35.90	46.00	-10.10	QP			
2	360.0000	21.27	21.24	42.51	46.00	-3.49	QP			
3	600.0000	15.23	25.53	40.76	46.00	-5.24	QP			


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Fax:+86-0755-26503396

Job No.: STAR #1249

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

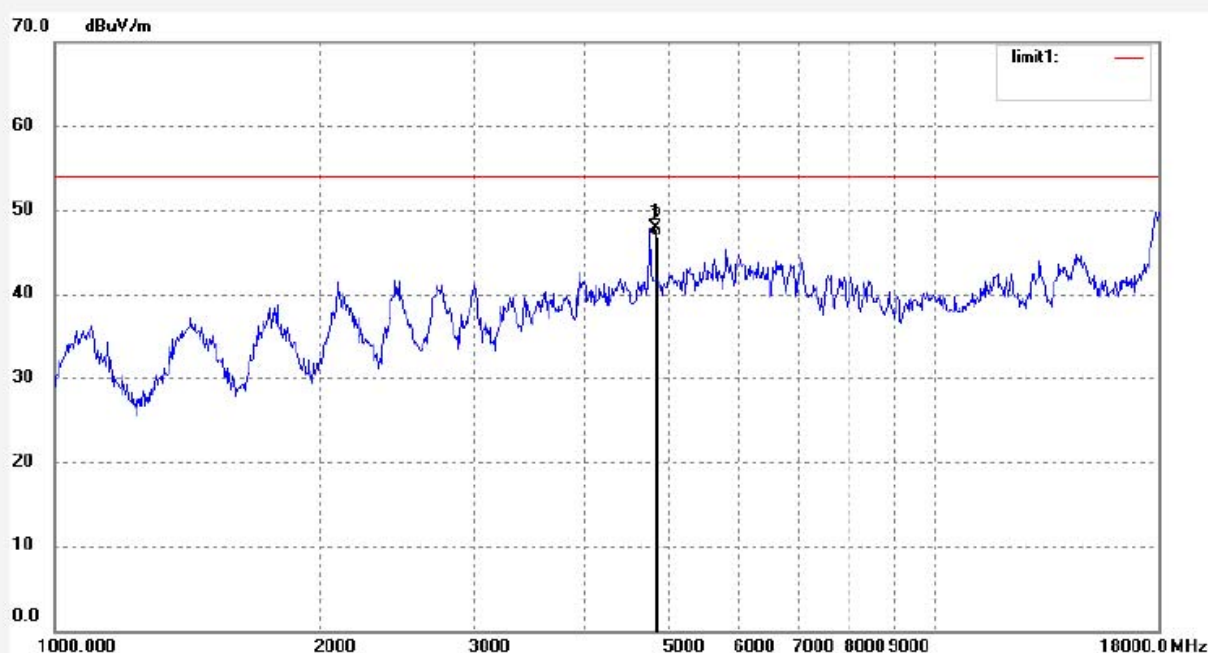
Date: 2012/06/02

Time: 0:56:14

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4824.000	48.06	-0.19	47.87	74.00	-26.13	peak			
2	4824.000	46.97	-0.19	46.78	54.00	-7.22	AVG			



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Job No.: STAR #1250

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

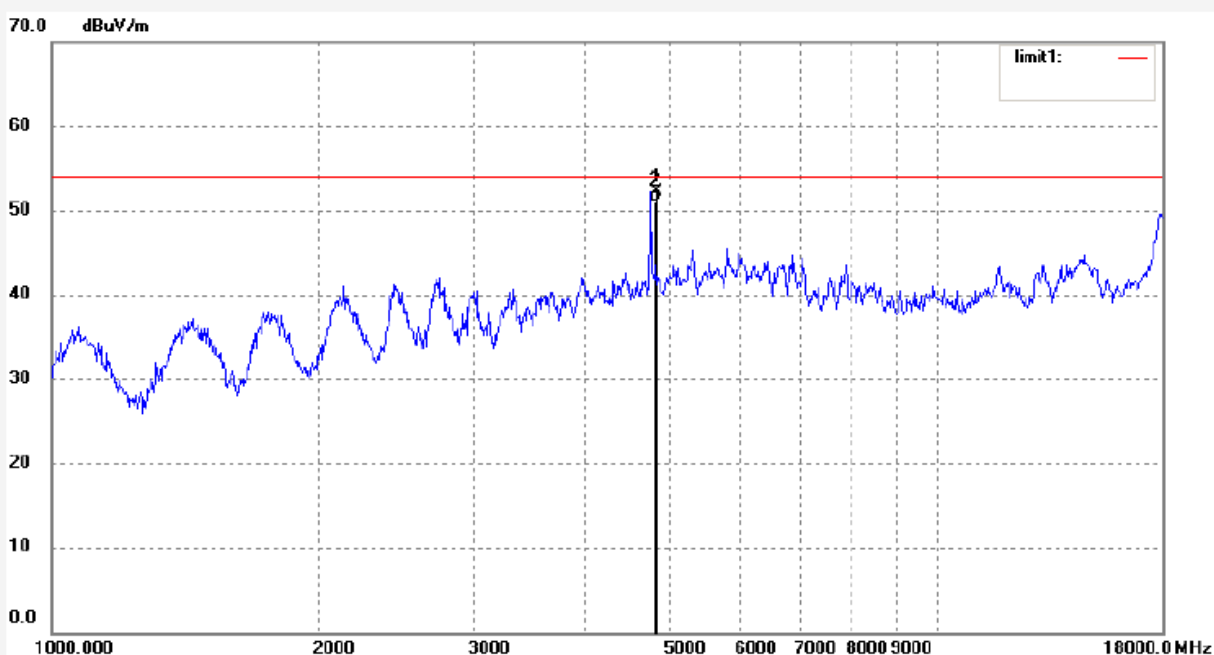
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Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4824.000	52.36	-0.19	52.17	74.00	-21.83	peak			
2	4824.000	51.27	-0.19	51.08	54.00	-2.92	AVG			


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Job No.: Star_tmp #194

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

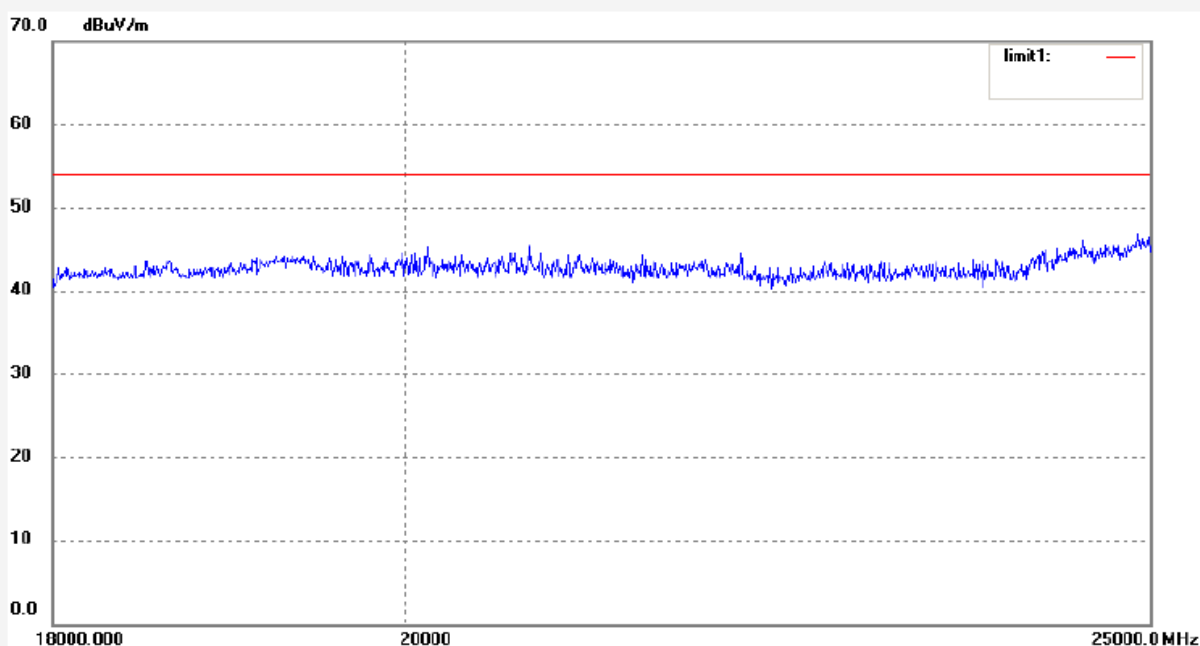
Date: 2012/06/02

Time: 18:43:43

Engineer Signature: Star

Distance:

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Job No.: Star_tmp #195

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

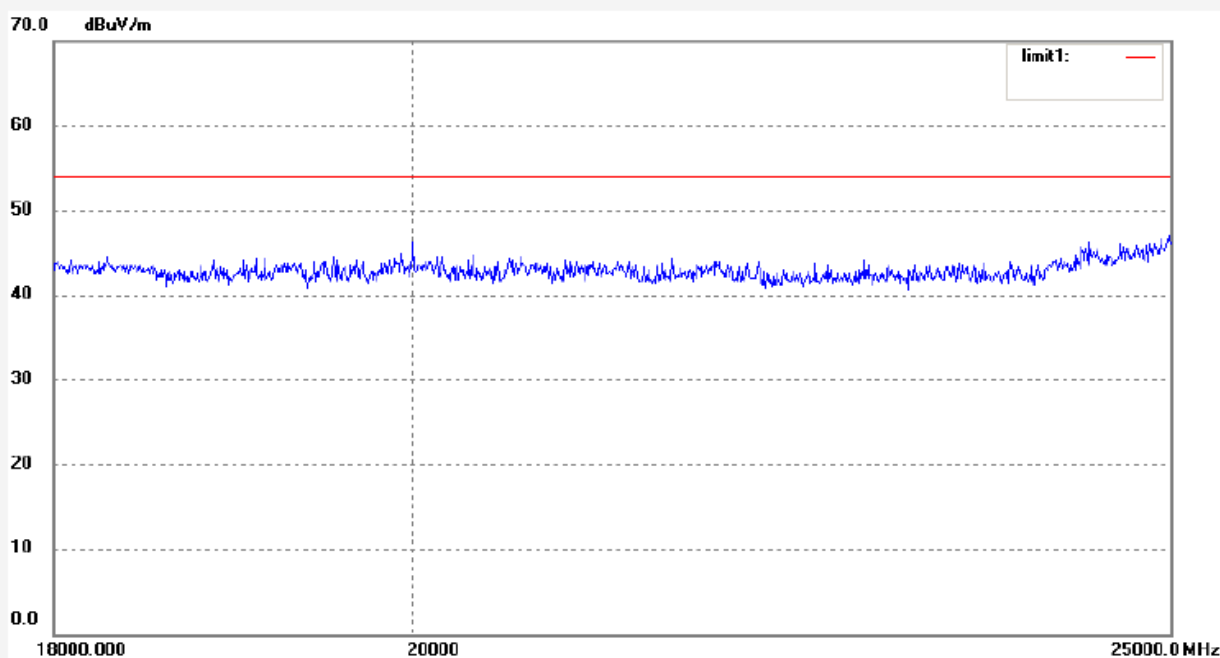
Date: 2012/06/02

Time: 18:44:15

Engineer Signature: Star

Distance:

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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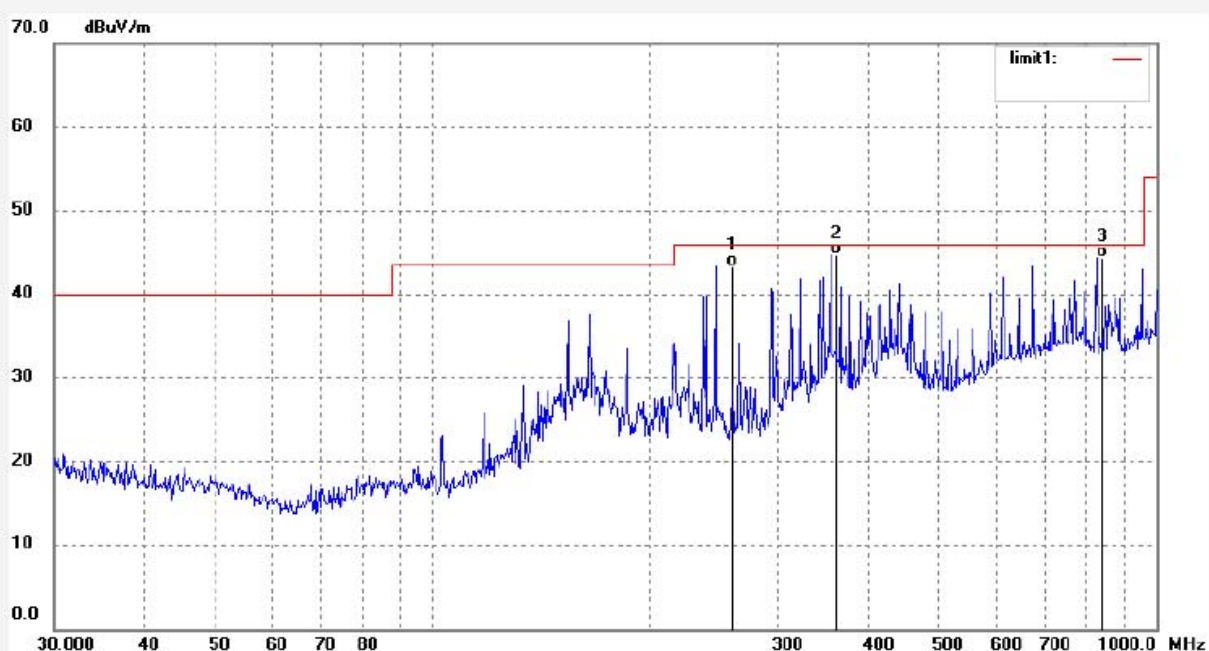
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR #1239
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Wi-Spi Intruder
Mode: TX Channel 6(802.11b)
Model: 44074

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2012/06/01
Time: 23:33:14
Engineer Signature:
Distance: 3m

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	260.0000	24.66	18.60	43.26	46.00	-2.74	QP			
2	360.0000	23.56	21.24	44.80	46.00	-1.20	QP			
3	840.0000	16.03	28.36	44.39	46.00	-1.61	QP			



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1240

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 6(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

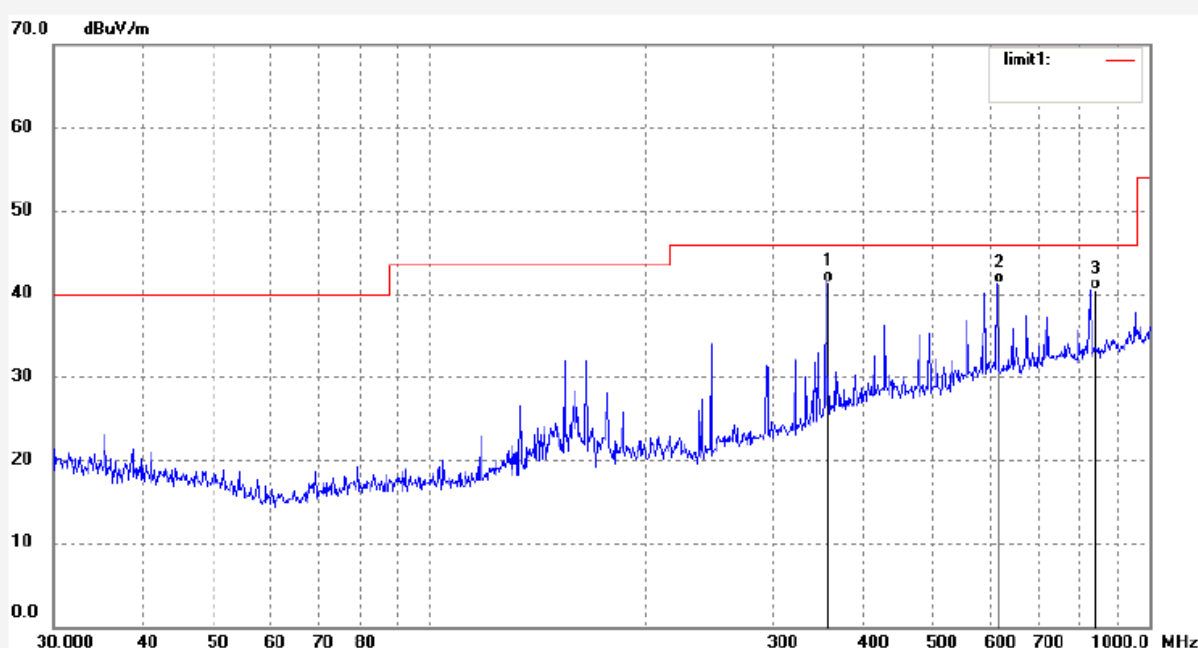
Date: 2012/06/01

Time: 23:34:59

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.0000	20.21	21.24	41.45	46.00	-4.55	QP			
2	620.0000	15.18	26.06	41.24	46.00	-4.76	QP			
3	840.0000	12.07	28.36	40.43	46.00	-5.57	QP			


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1252

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 6(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

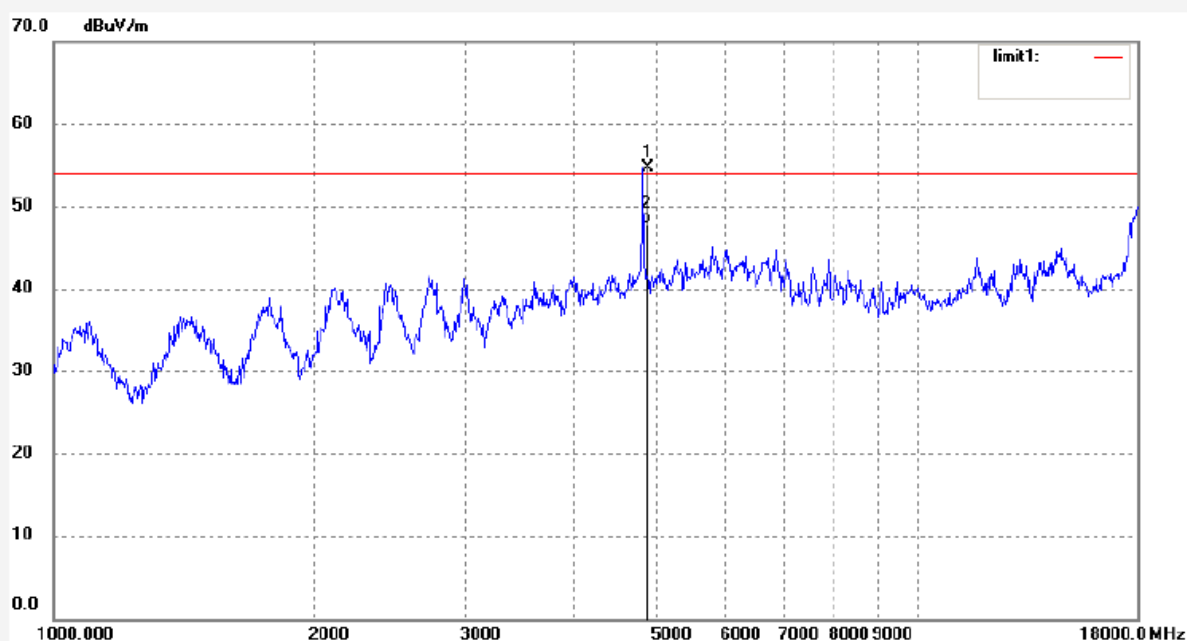
Date: 2012/06/02

Time: 1:04:29

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4874.000	54.55	0.09	54.64	74.00	-19.36	peak			
2	4874.000	47.71	0.09	47.80	54.00	-6.20	AVG			



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1251

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 6(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

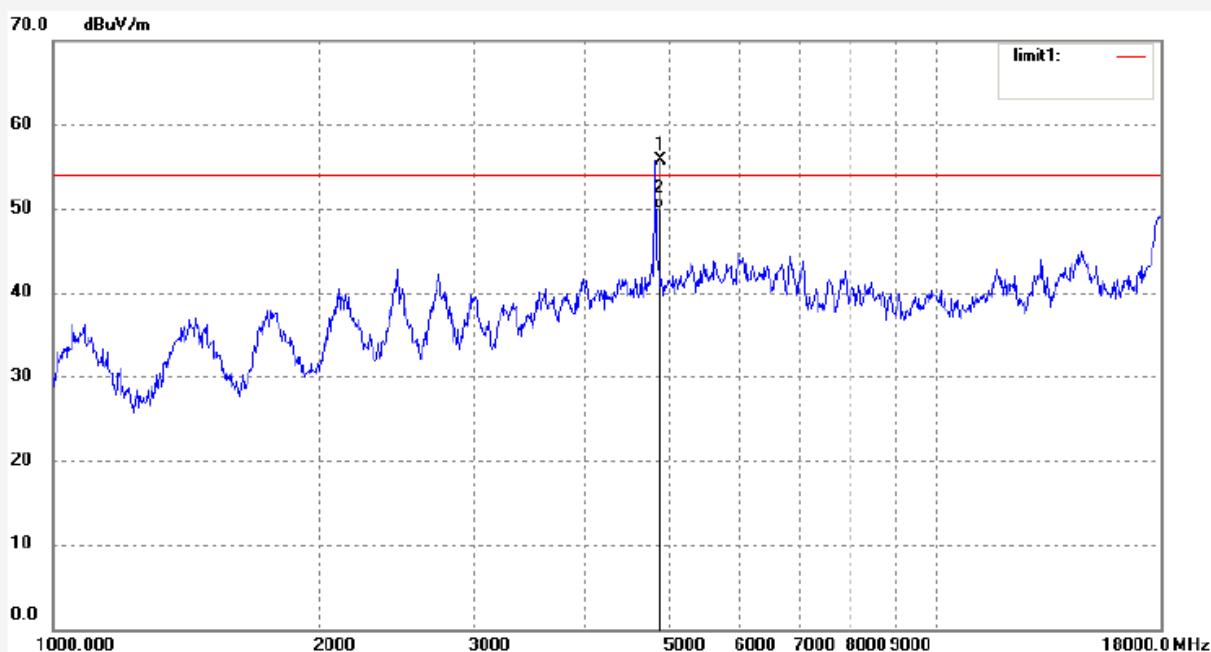
Date: 2012/06/02

Time: 1:00:00

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4874.000	55.62	0.09	55.71	74.00	-18.29	peak			
2	4874.000	49.81	0.09	49.90	54.00	-4.10	AVG			


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Star_tmp #197

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: Wi-Spi Intruder

Mode: TX Channel 6(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2012/06/02

Time: 18:44:50

Engineer Signature: Star

Distance:

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Star_tmp #196

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: Wi-Spi Intruder

Mode: TX Channel 6(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

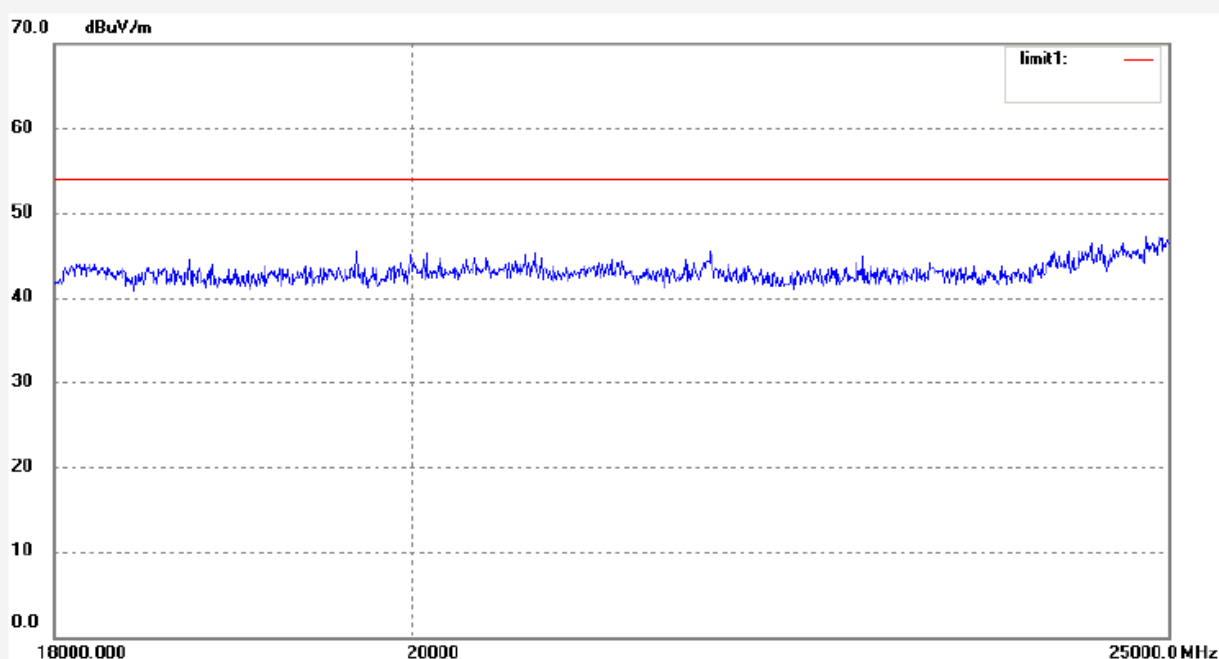
Date: 2012/06/02

Time: 18:44:34

Engineer Signature: Star

Distance:

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR #1242

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

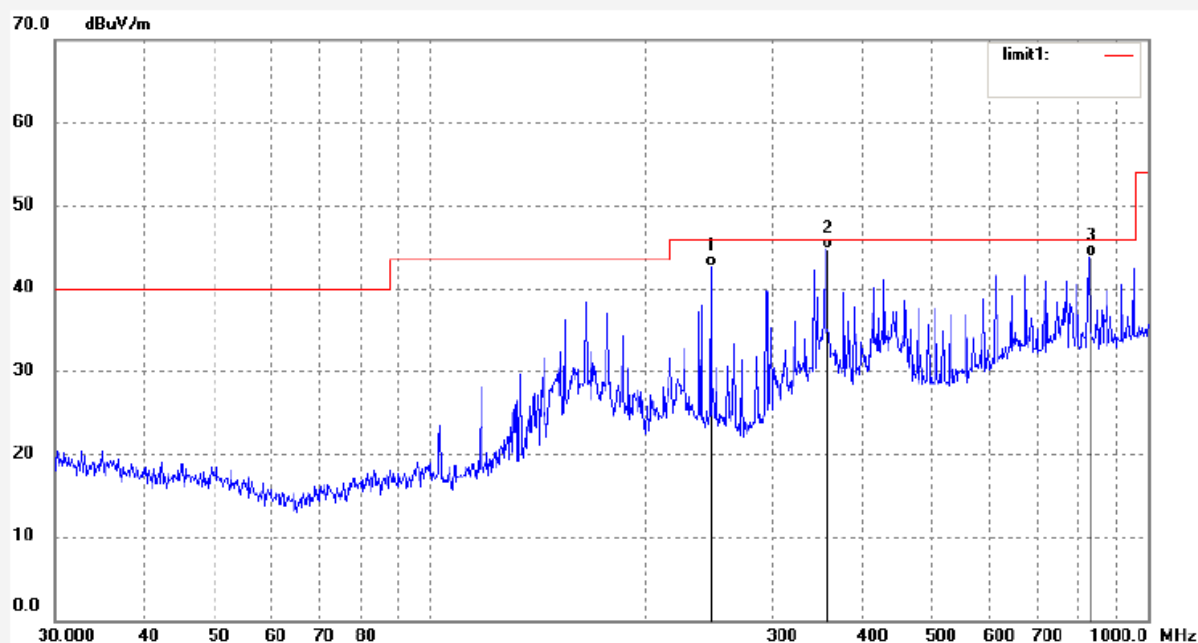
Date: 2012/06/01

Time: 23:36:44

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	246.1237	25.34	17.19	42.53	46.00	-3.47	QP			
2	360.0000	23.40	21.24	44.64	46.00	-1.36	QP			
3	840.0000	15.42	28.36	43.78	46.00	-2.22	QP			



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1241

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

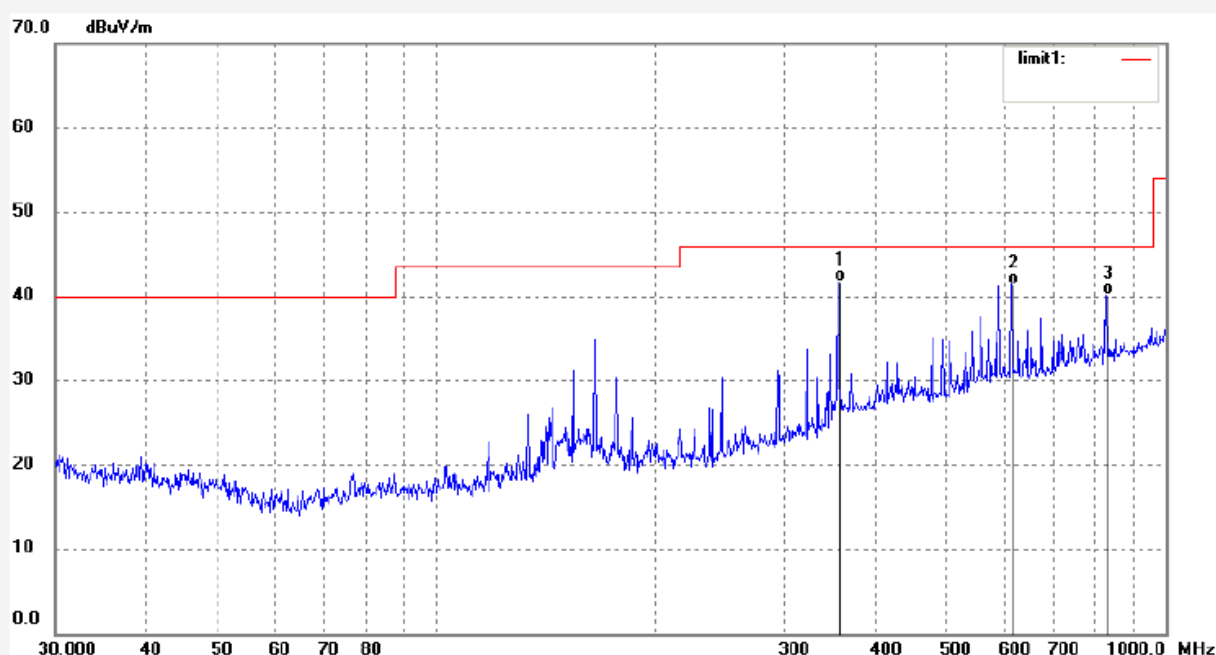
Date: 2012/06/01

Time: 23:35:46

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.0000	20.47	21.24	41.71	46.00	-4.29	QP			
2	620.0000	15.41	26.06	41.47	46.00	-4.53	QP			
3	840.0000	11.84	28.36	40.20	46.00	-5.80	QP			



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1253

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

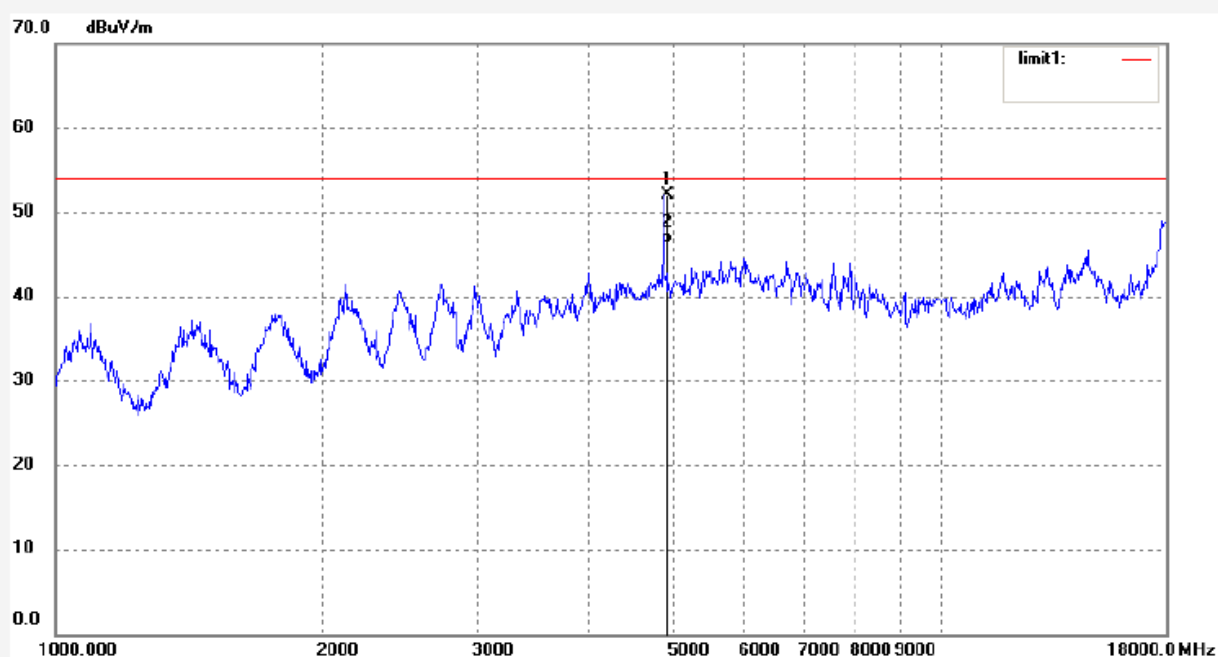
Date: 2012/06/02

Time: 1:23:40

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4924.000	51.68	0.34	52.02	74.00	-21.98	peak			
2	4924.000	45.96	0.34	46.30	54.00	-7.70	AVG			


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1254

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

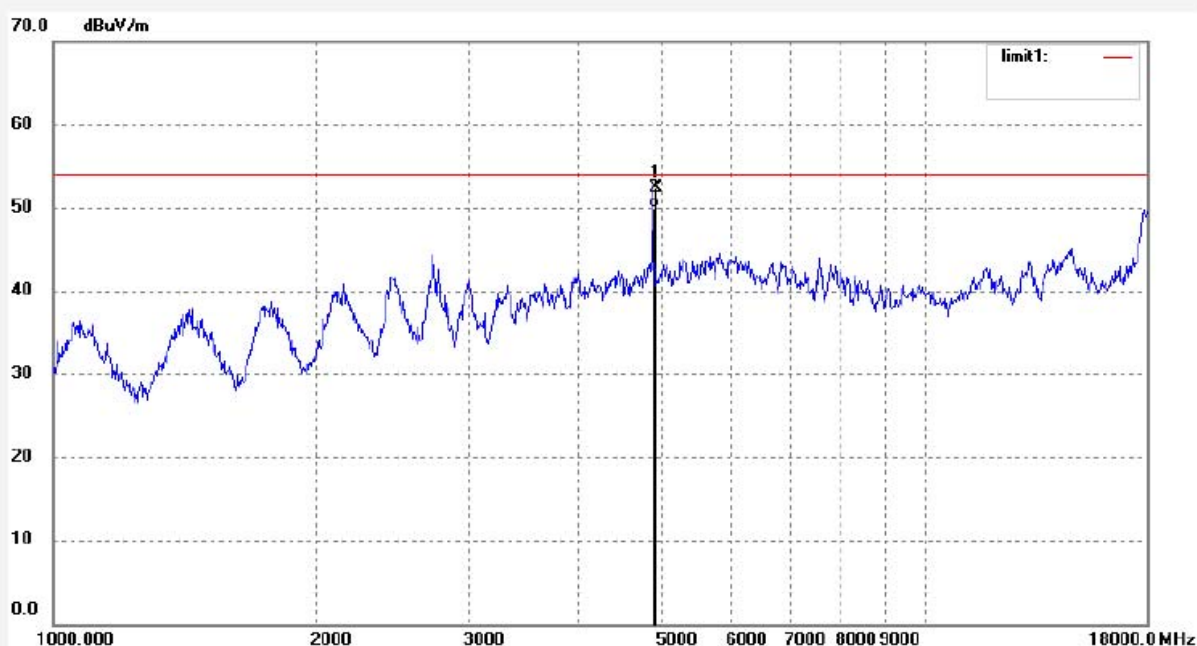
Date: 2012/06/02

Time: 1:27:52

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4924.000	52.01	0.34	52.35	74.00	-21.65	peak			
2	4924.000	49.69	0.34	50.03	54.00	-3.97	AVG			


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Star_tmp #198

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

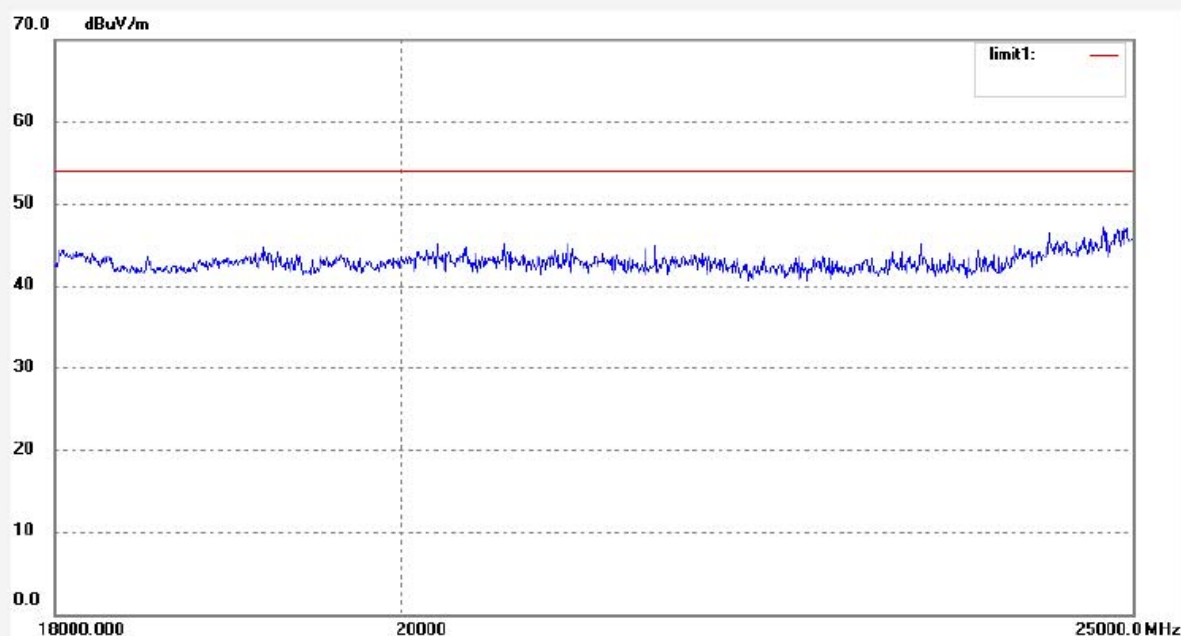
Date: 2012/06/02

Time: 18:45:04

Engineer Signature: Star

Distance:

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Star_tmp #199

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11b)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

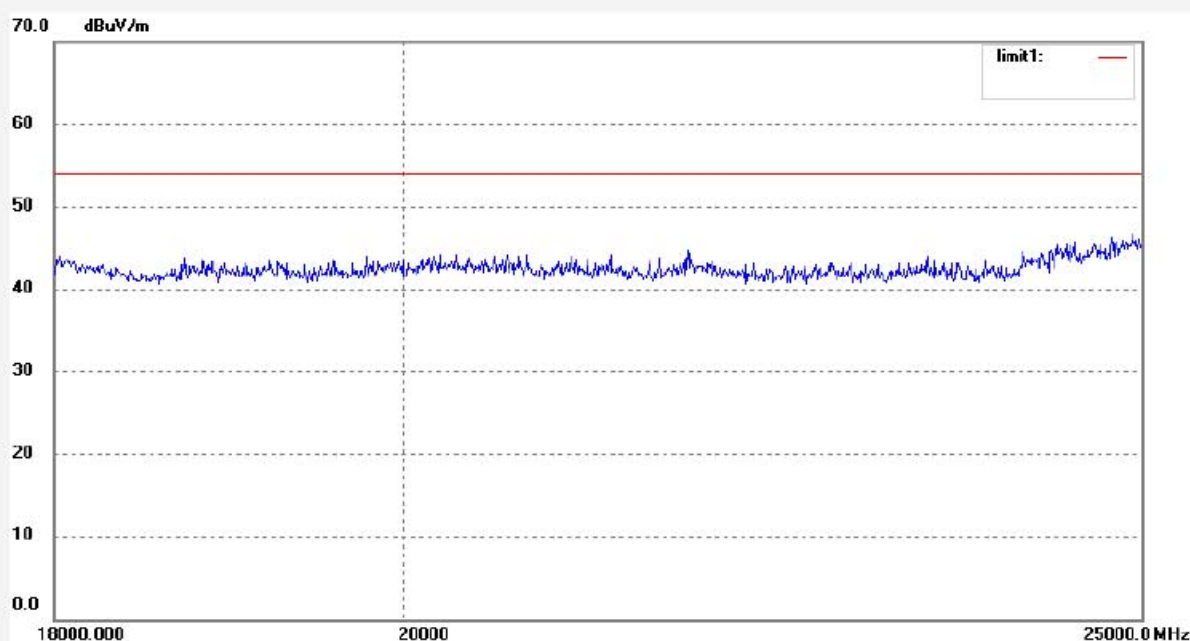
Date: 2012/06/02

Time: 18:45:22

Engineer Signature: Star

Distance:

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1243

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

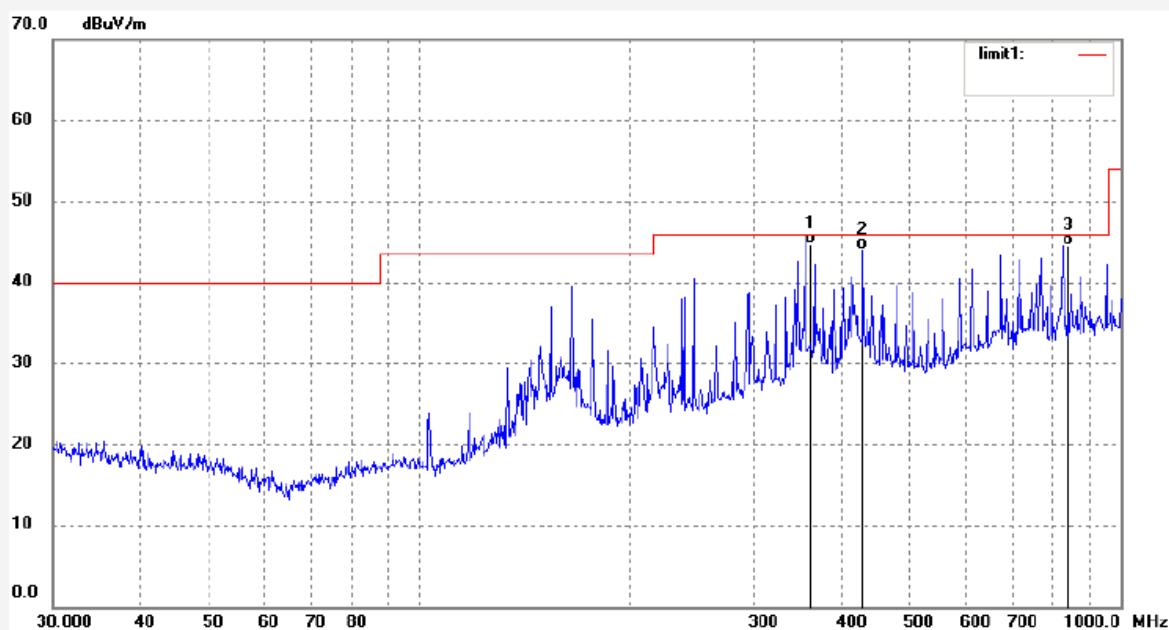
Date: 2012/06/01

Time: 23:37:58

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.0000	23.43	21.24	44.67	46.00	-1.33	QP			
2	428.7959	21.01	23.01	44.02	46.00	-1.98	QP			
3	840.0000	16.19	28.36	44.55	46.00	-1.45	QP			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1244

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

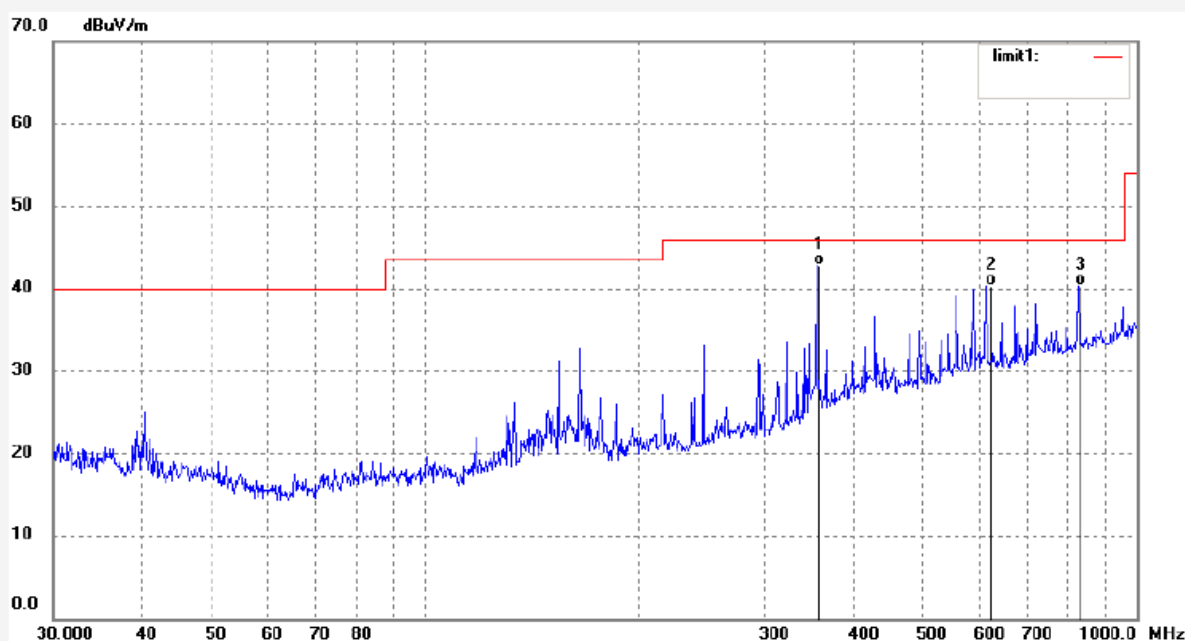
Date: 2012/06/01

Time: 23:38:49

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.0000	21.61	21.24	42.85	46.00	-3.15	QP			
2	620.0000	14.36	26.06	40.42	46.00	-5.58	QP			
3	840.0000	12.06	28.36	40.42	46.00	-5.58	QP			

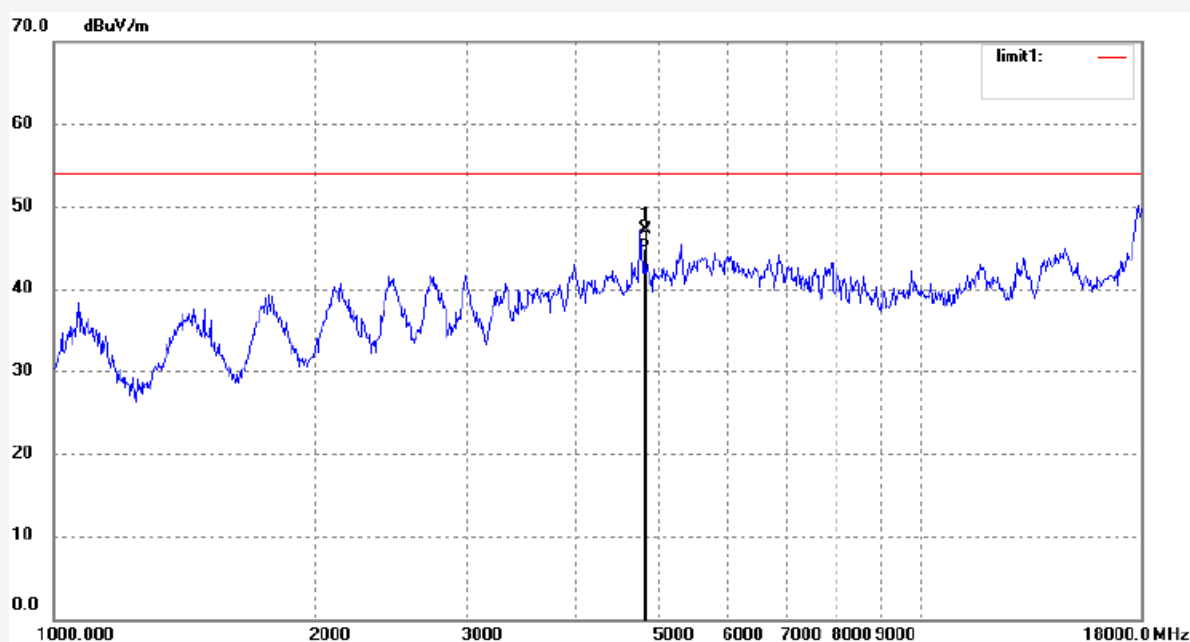

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 Site: 966 chamber
 Tel:+86-0755-26503290
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Job No.: STAR #1256	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2012/06/02
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 1:31:52
EUT: Wi-Spi Intruder	Engineer Signature:
Mode: TX Channel 1(802.11g)	Distance: 3m
Model: 44074	
Manufacturer: Interactive Toy Concepts (HK) Ltd.	

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4824.000	47.30	-0.19	47.11	74.00	-26.89	peak			
2	4824.000	45.15	-0.19	44.96	54.00	-9.04	AVG			


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1255

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

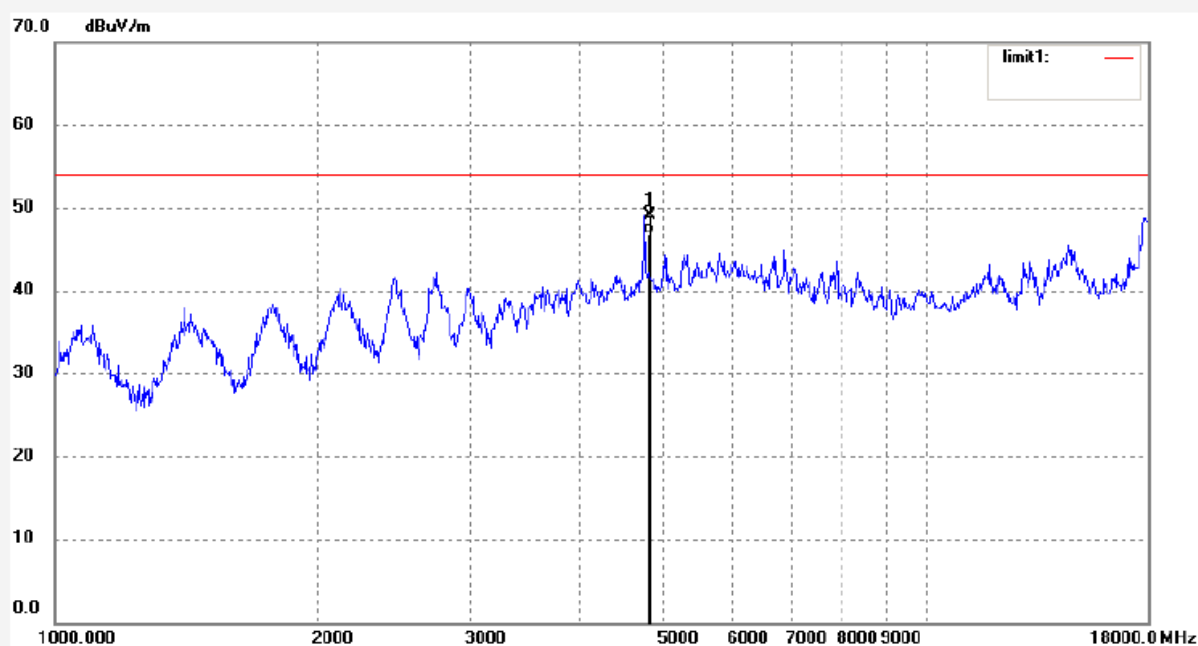
Date: 2012/06/02

Time: 1:29:19

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4824.000	49.31	-0.19	49.12	74.00	-24.88	peak			
2	4824.000	47.05	-0.19	46.86	54.00	-7.14	AVG			


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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: Star_tmp #201

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

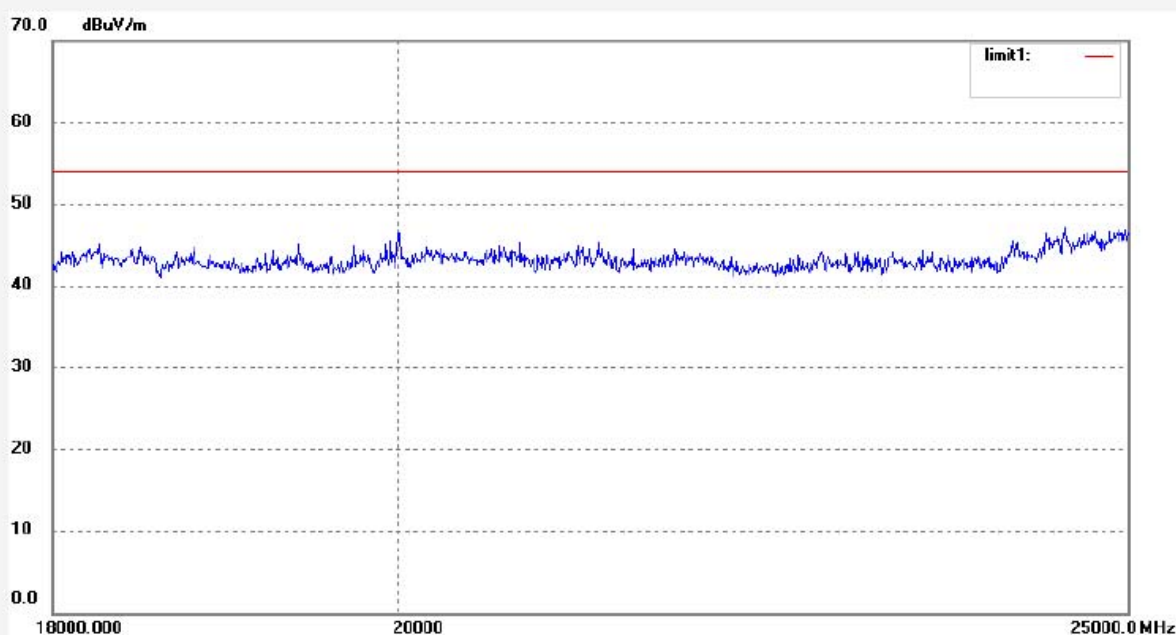
Date: 2012/06/02

Time: 18:46:04

Engineer Signature: Star

Distance:

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Star_tmp #200

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: Wi-Spi Intruder

Mode: TX Channel 1(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

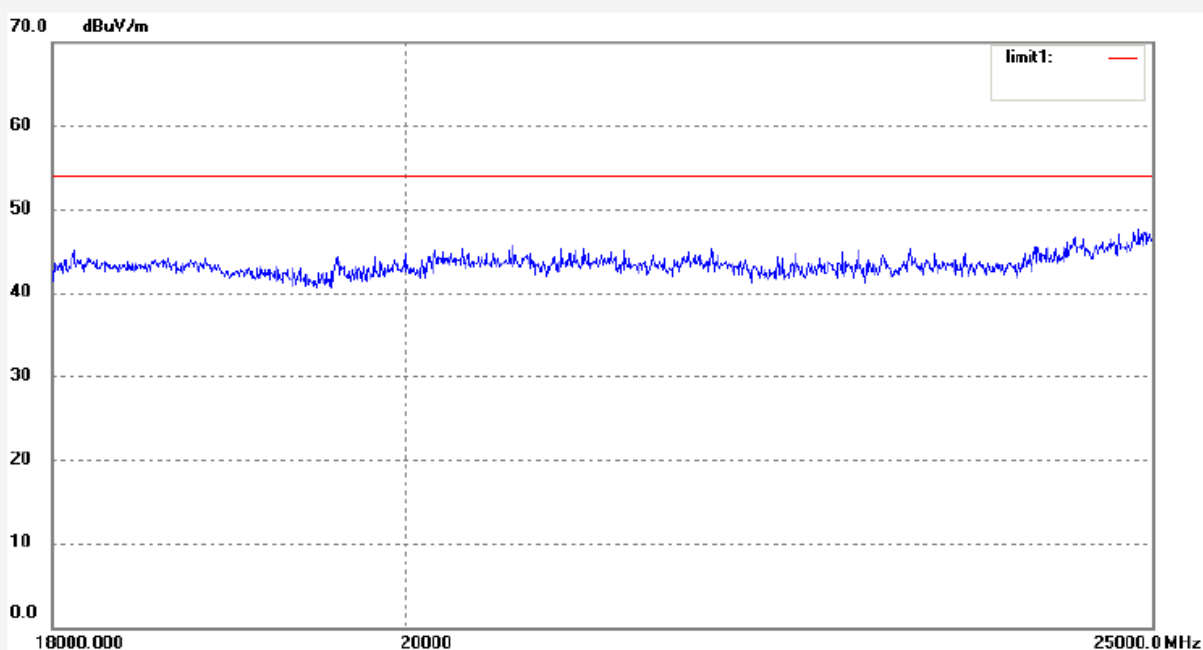
Date: 2012/06/02

Time: 18:45:42

Engineer Signature: Star

Distance:

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1246

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 6(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

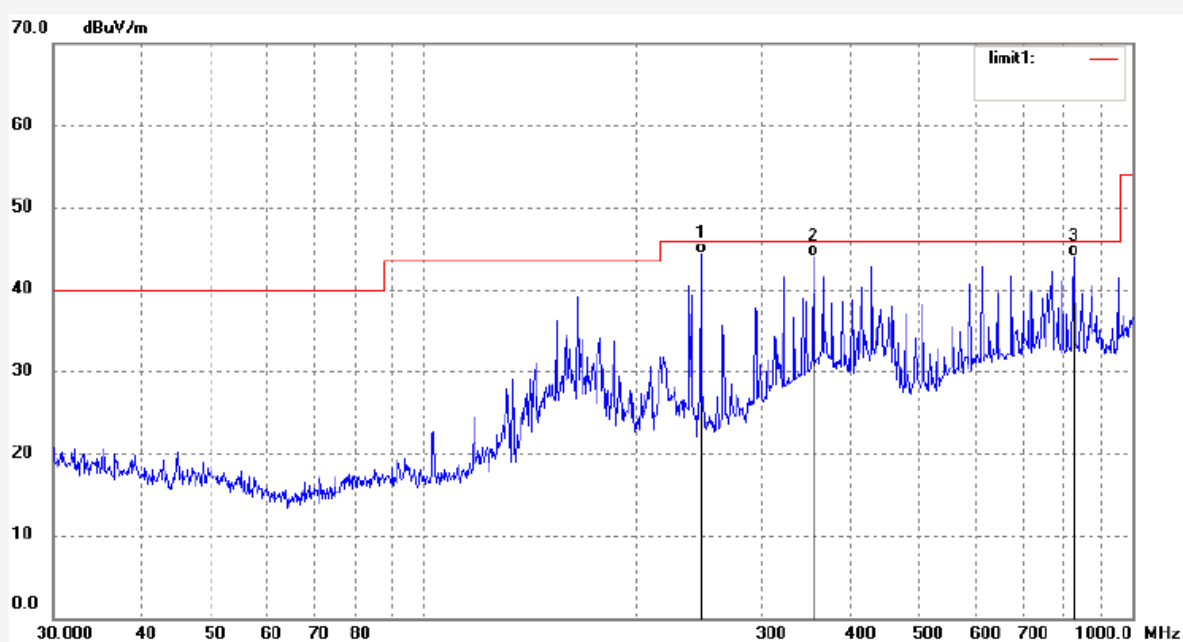
Date: 2012/06/01

Time: 23:40:20

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	246.0000	27.20	17.18	44.38	46.00	-1.62	QP			
2	354.6911	22.94	21.09	44.03	46.00	-1.97	QP			
3	827.1794	15.88	28.20	44.08	46.00	-1.92	QP			



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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR #1245

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 6(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

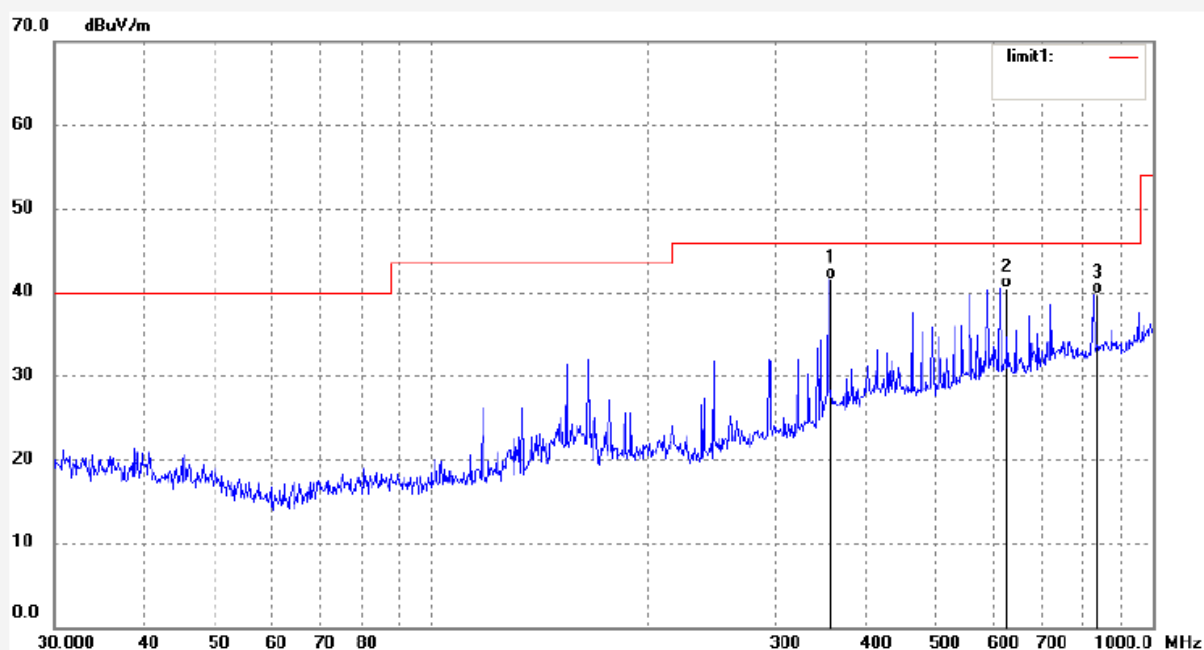
Date: 2012/06/01

Time: 23:39:30

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.0000	20.24	21.24	41.48	46.00	-4.52	QP			
2	630.0000	14.39	26.06	40.45	46.00	-5.55	QP			
3	840.0000	11.45	28.36	39.81	46.00	-6.19	QP			


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1257

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 6(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

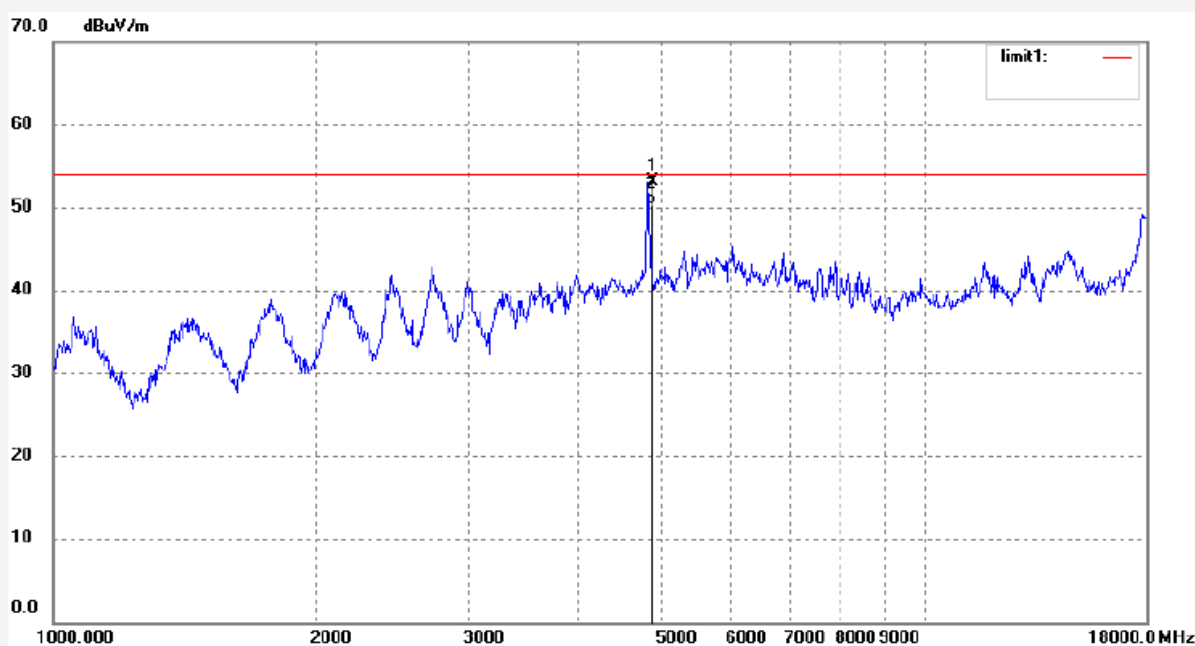
Date: 2012/06/02

Time: 1:33:32

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4874.000	52.95	0.09	53.04	74.00	-20.96	peak			
2	4874.000	50.17	0.09	50.26	54.00	-3.74	AVG			


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1258

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 6(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

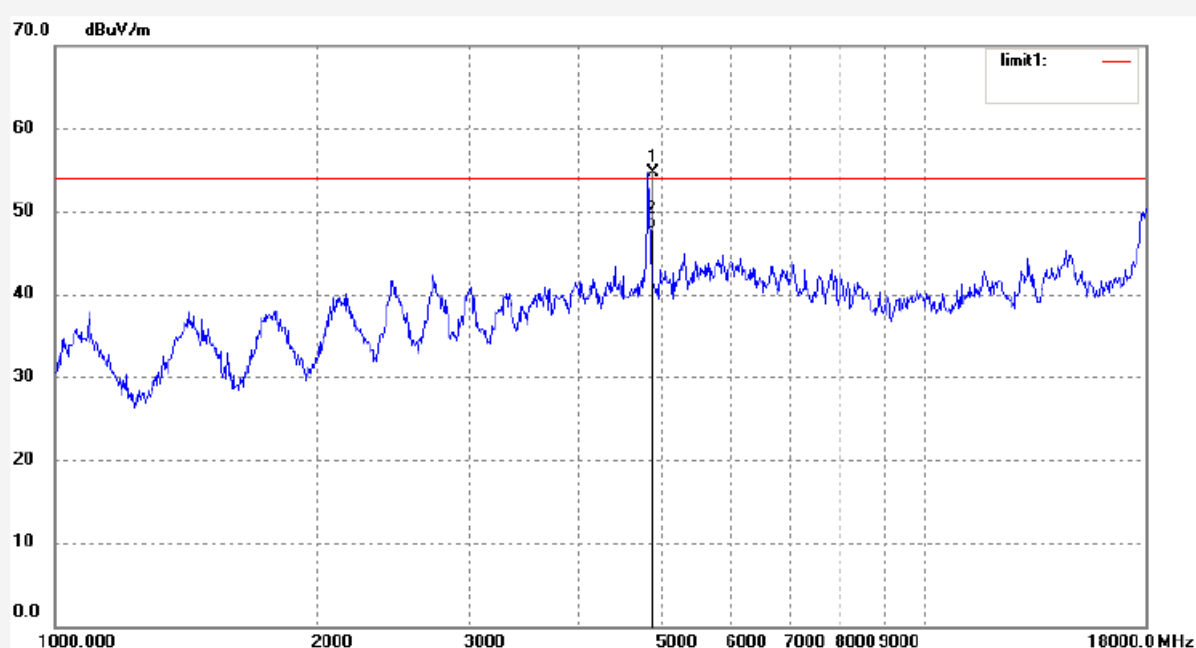
Date: 2012/06/02

Time: 1:35:32

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4874.000	54.63	0.09	54.72	74.00	-19.28	peak			
2	4874.000	47.71	0.09	47.80	54.00	-6.20	AVG			


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Star_tmp #202

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: Wi-Spi Intruder

Mode: TX Channel 6(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

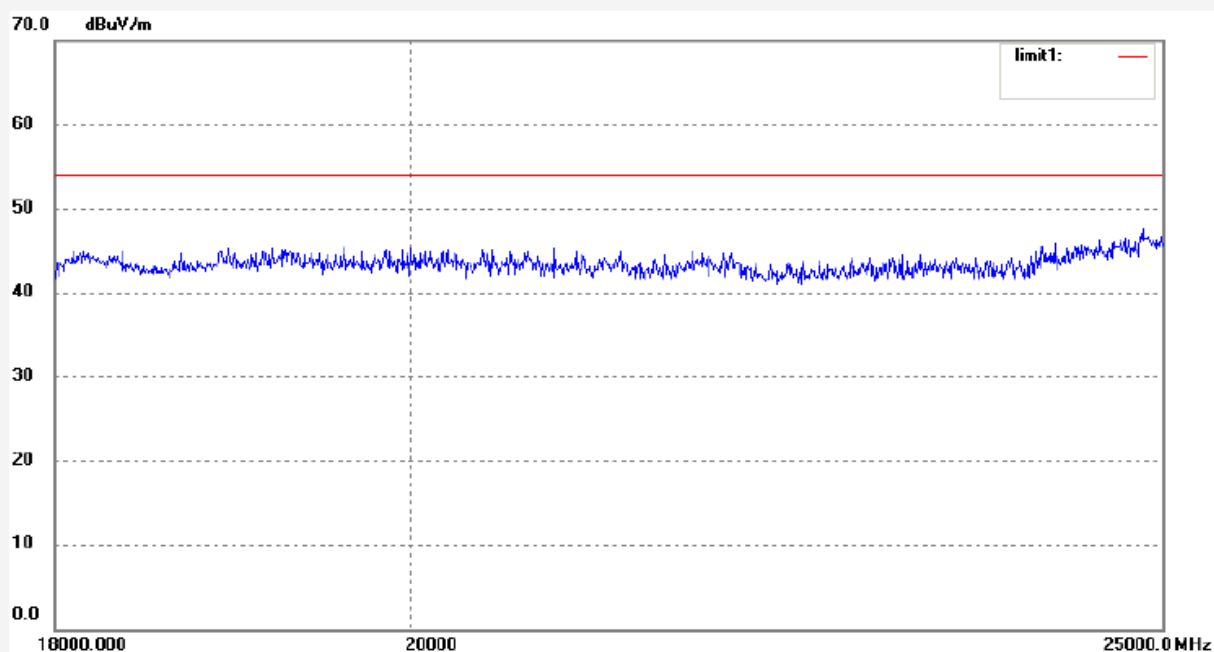
Date: 2012/06/02

Time: 18:46:17

Engineer Signature: Star

Distance:

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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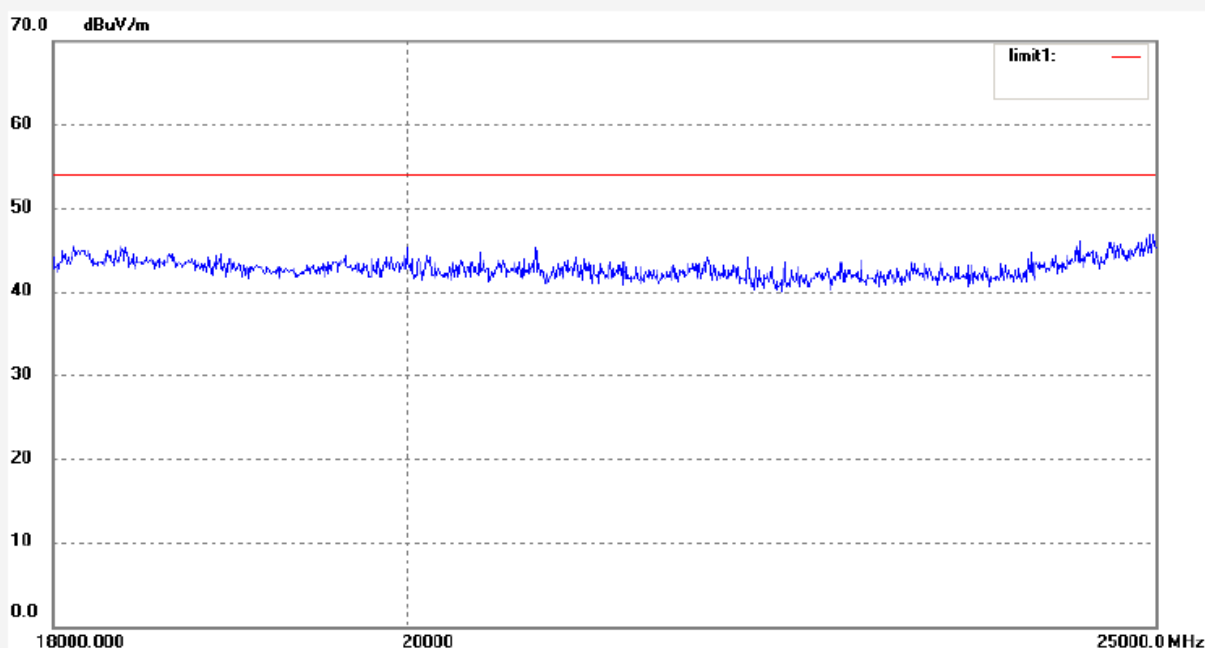
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Star_tmp #203	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2012/06/02
Temp.(C)/Hum.(%) 25 C / 51 %	Time: 18:46:33
EUT: Wi-Spi Intruder	Engineer Signature: Star
Mode: TX Channel 6(802.11g)	Distance:
Model: 44074	
Manufacturer: Interactive Toy Concepts (HK) Ltd.	

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR #1247

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

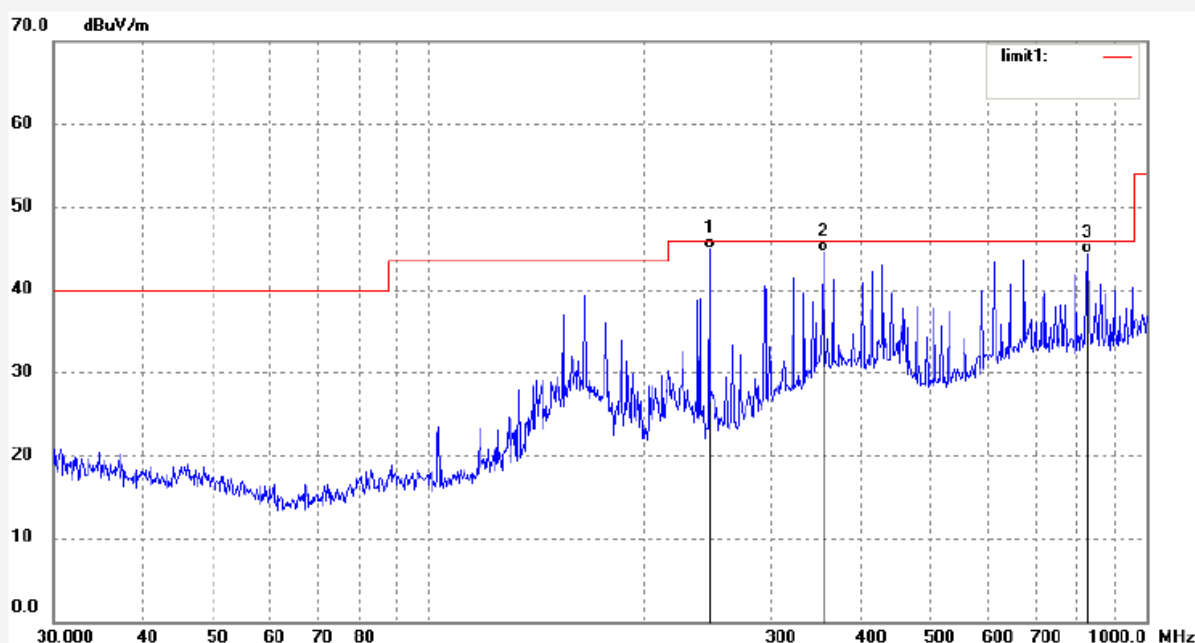
Date: 2012/06/01

Time: 23:41:03

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	246.1237	27.72	17.19	44.91	46.00	-1.09	QP			
2	354.6911	23.52	21.09	44.61	46.00	-1.39	QP			
3	827.1794	16.17	28.20	44.37	46.00	-1.63	QP			



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1248

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

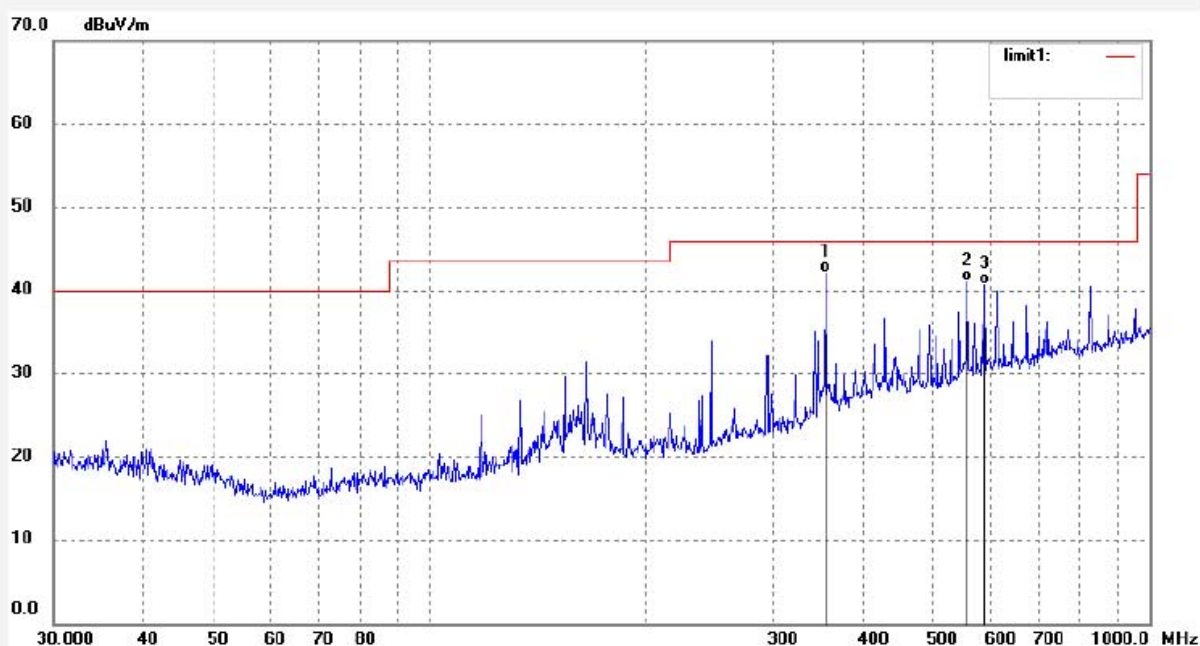
Date: 2012/06/01

Time: 23:42:37

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	354.6911	21.00	21.09	42.09	46.00	-3.91	QP			
2	558.0788	15.67	25.35	41.02	46.00	-4.98	QP			
3	590.3510	15.34	25.39	40.73	46.00	-5.27	QP			


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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: STAR #1260

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

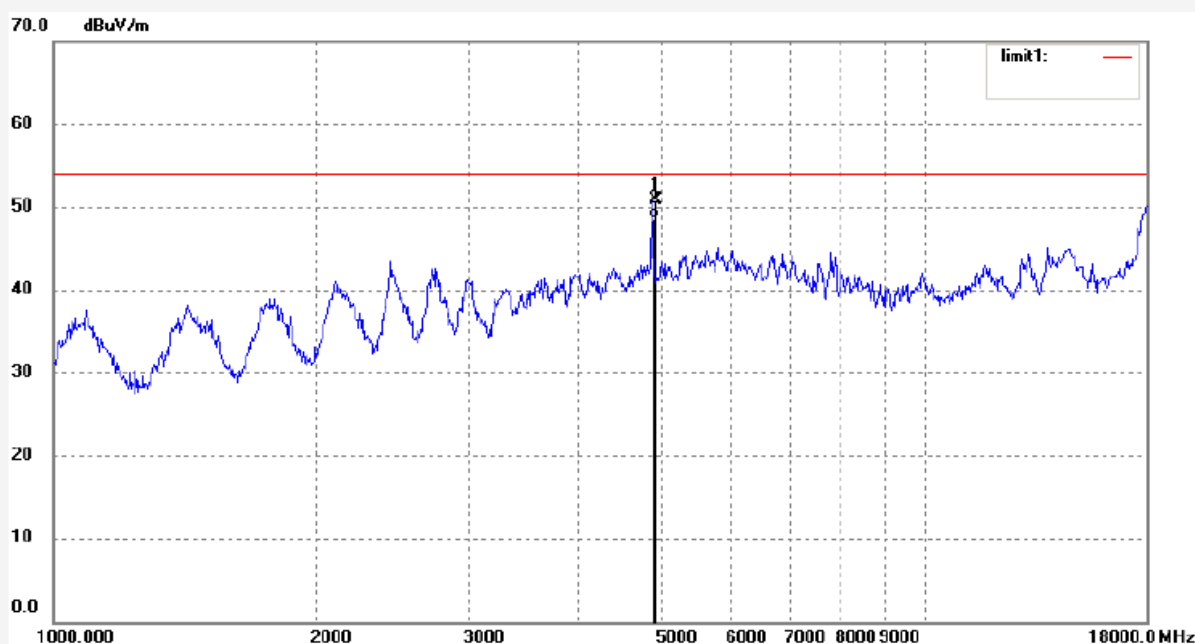
Date: 2012/06/02

Time: 1:44:00

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4924.000	50.51	0.34	50.85	74.00	-23.15	peak			
2	4924.000	48.31	0.34	48.65	54.00	-5.35	AVG			


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #1259

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

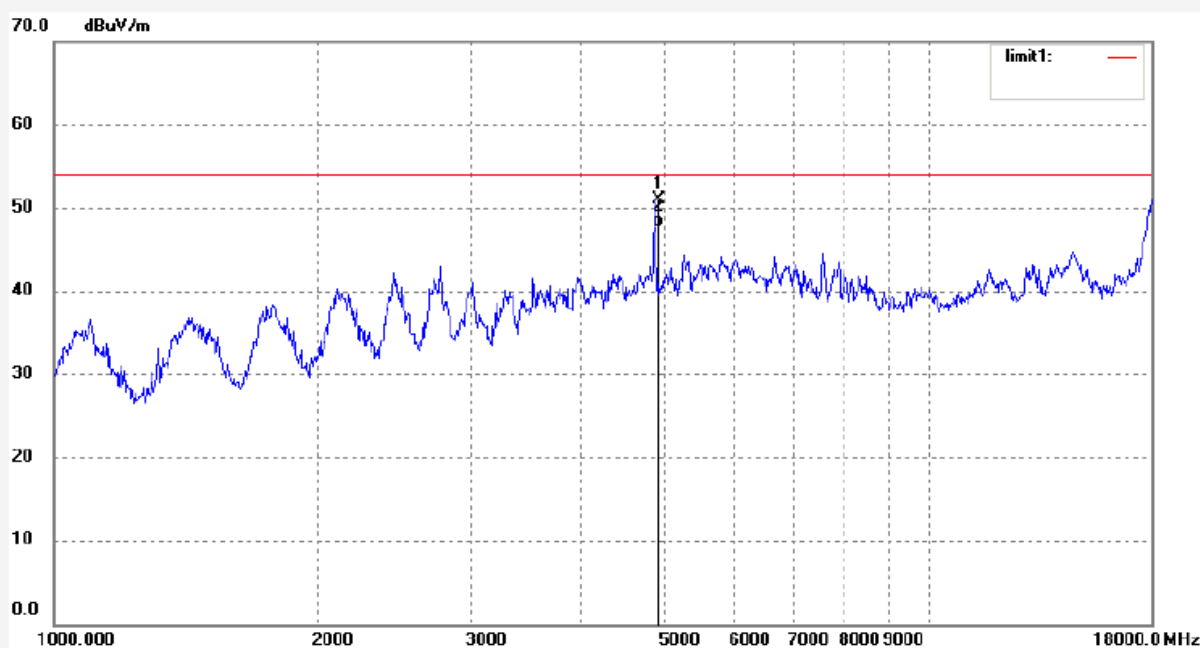
Date: 2012/06/02

Time: 1:39:05

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121030 Sample No.:1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4924.000	50.68	0.34	51.02	74.00	-22.98	peak			
2	4924.000	47.27	0.34	47.61	54.00	-6.39	AVG			


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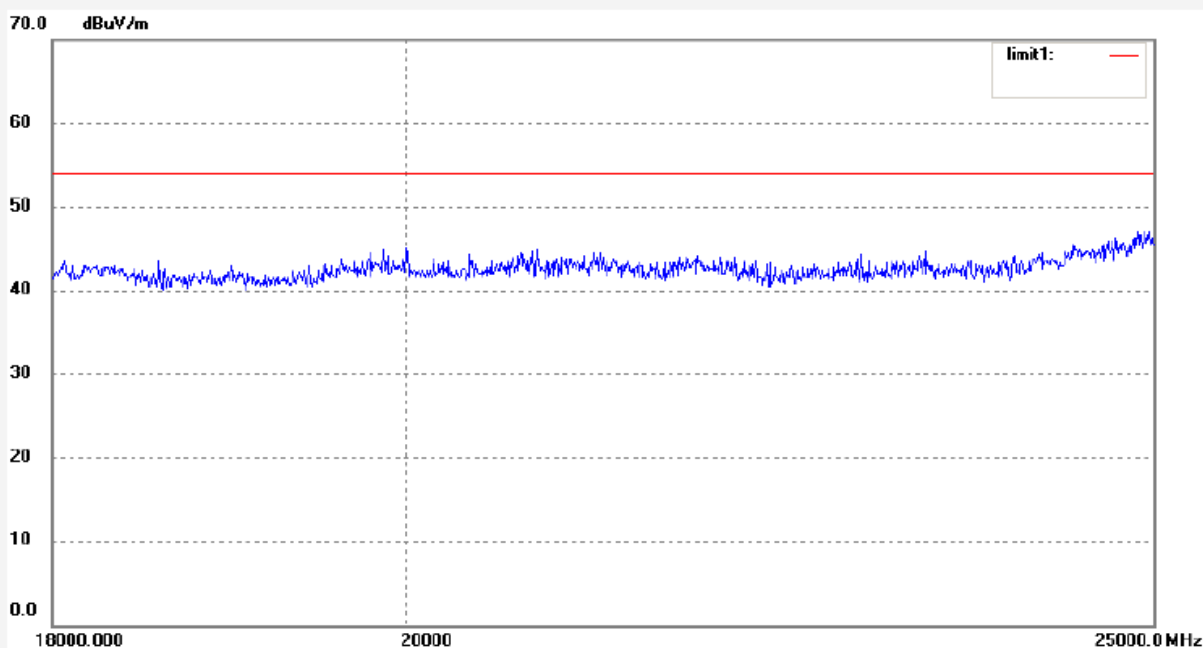
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Star_tmp #205	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2012/06/02
Temp.(C)/Hum.(%) 25 C / 51 %	Time: 18:47:12
EUT: Wi-Spi Intruder	Engineer Signature: Star
Mode: TX Channel 11(802.11g)	Distance:
Model: 44074	
Manufacturer: Interactive Toy Concepts (HK) Ltd.	

Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Star_tmp #204

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: Wi-Spi Intruder

Mode: TX Channel 11(802.11g)

Model: 44074

Manufacturer: Interactive Toy Concepts (HK) Ltd.

Polarization: Vertical

Power Source: DC 3.7V

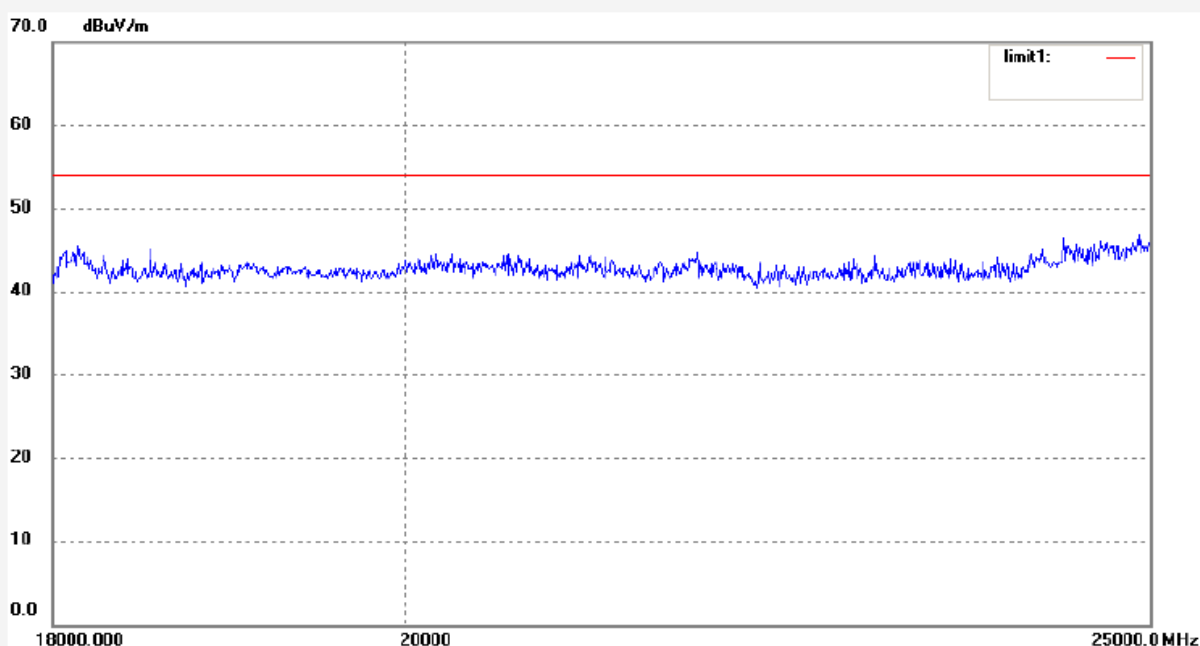
Date: 2012/06/02

Time: 18:46:56

Engineer Signature: Star

Distance:

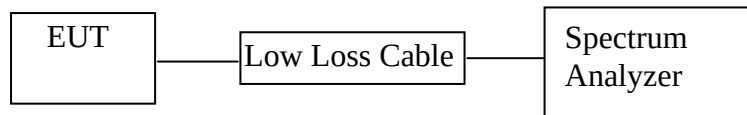
Note: Report No.: ATE20121030 Sample No.: 1201949



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------

10.CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

10.1.Block Diagram of Test Setup



(EUT: Wi-Spi Intruder)

10.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

10.3.EUT Configuration on Measurement

The following equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.3.1.Wi-Spi Intruder (EUT)

Model Number	:	44074
Serial Number	:	N/A
Manufacturer	:	Interactive Toy Concepts Limited

10.4.Operating Condition of EUT

10.4.1.Setup the EUT and simulator as shown as Section 10.1.

10.4.2.Turn on the power of all equipment.

10.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

10.5.Test Procedure

10.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

10.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz (below 1GHz).

Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz (above 1GHz).

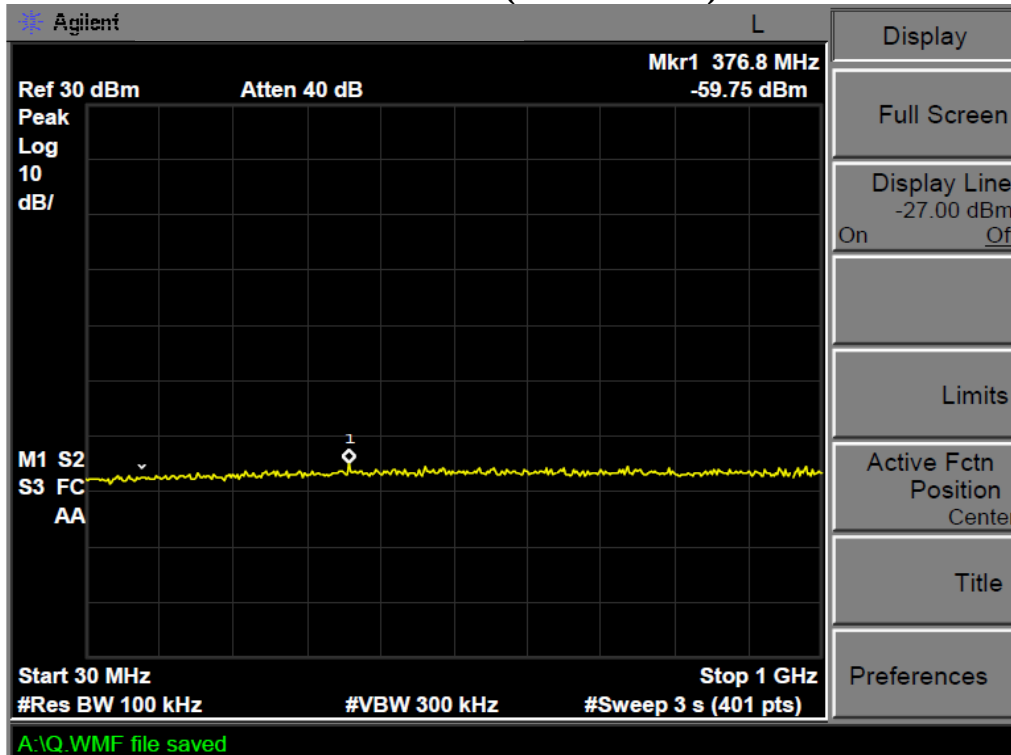
10.5.3.The Conducted Spurious Emission was measured and recorded.

10.6.Test Result

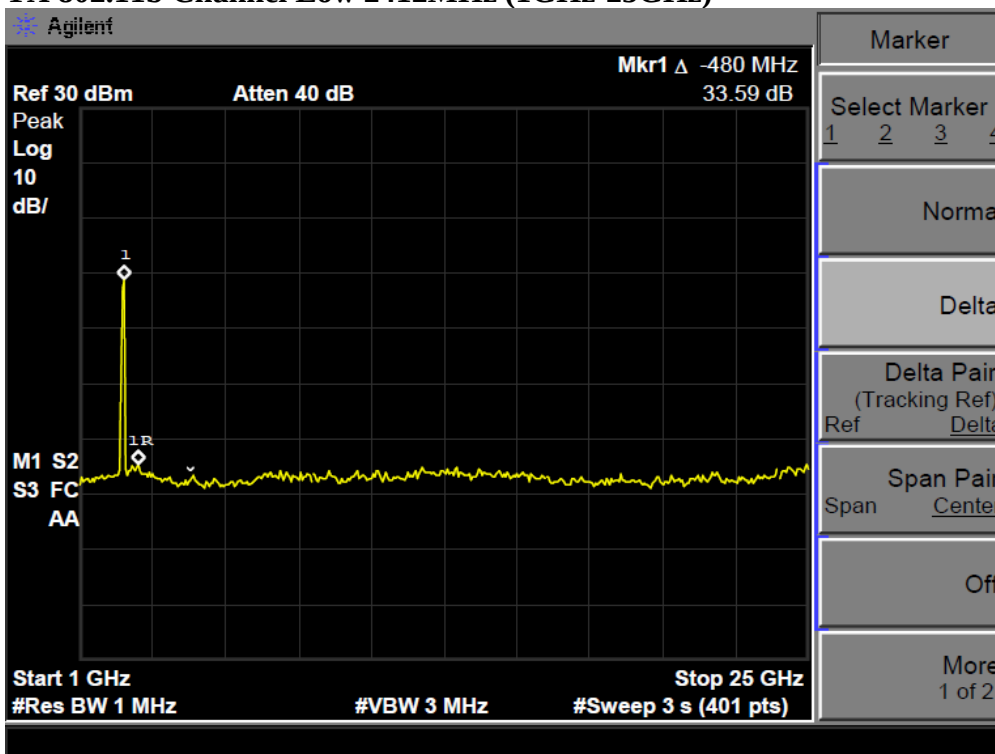
Pass.

The spectrum analyzer plots are attached as below.

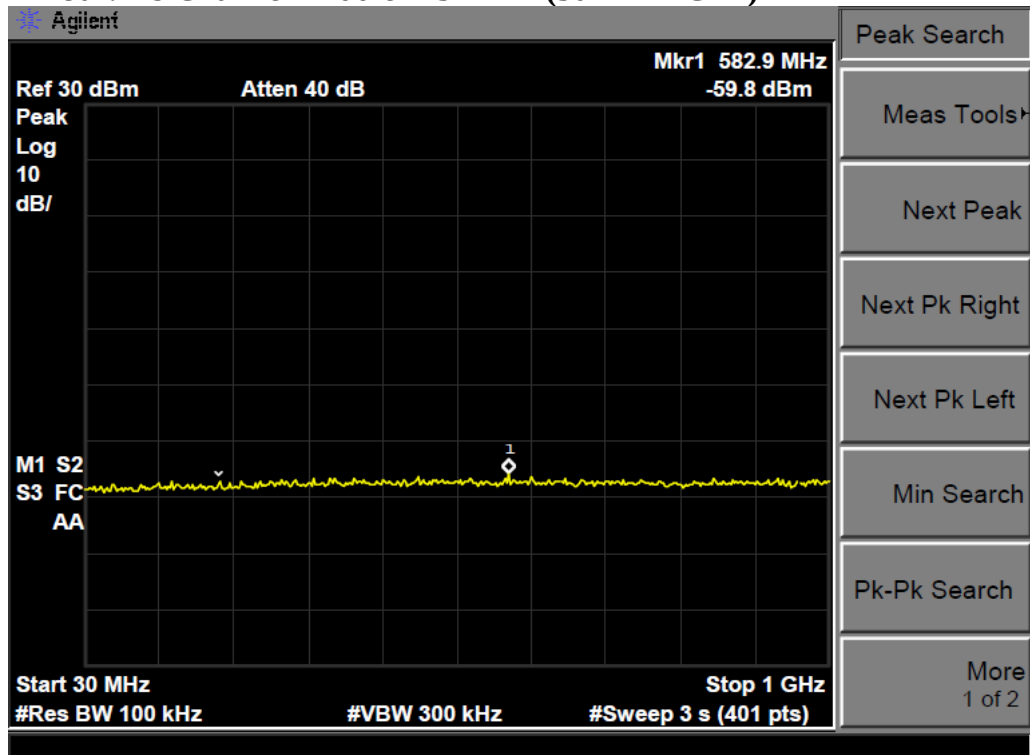
TX 802.11b Channel Low 2412MHz (30MHz-1GHz)



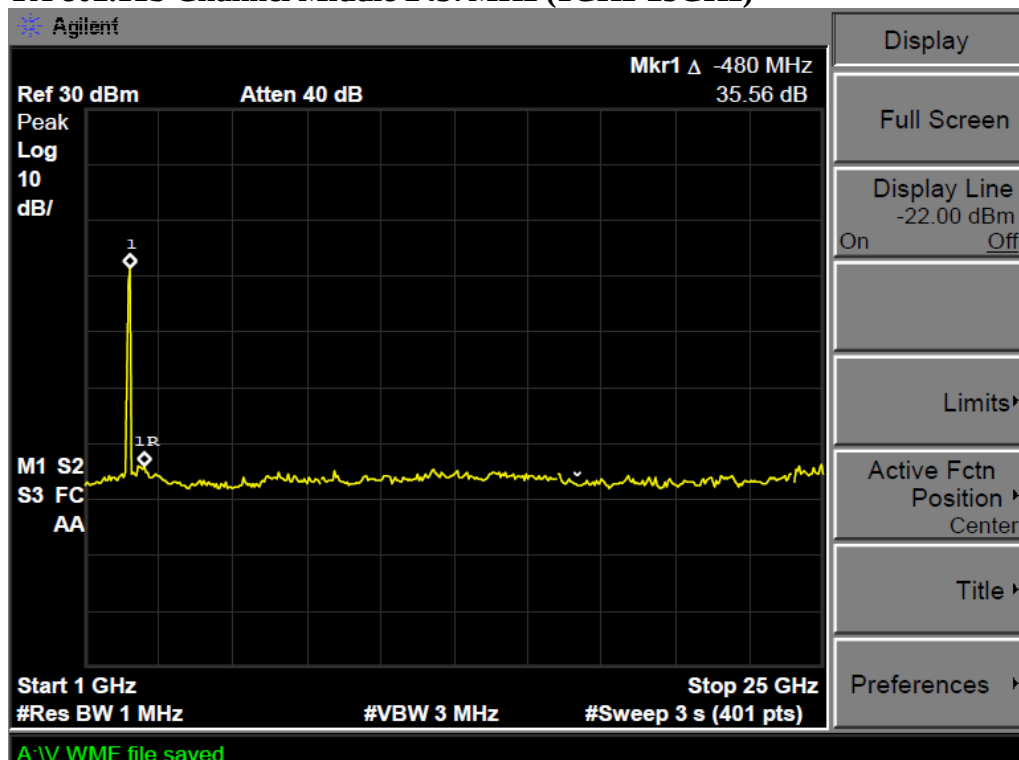
TX 802.11b Channel Low 2412MHz (1GHz-25GHz)



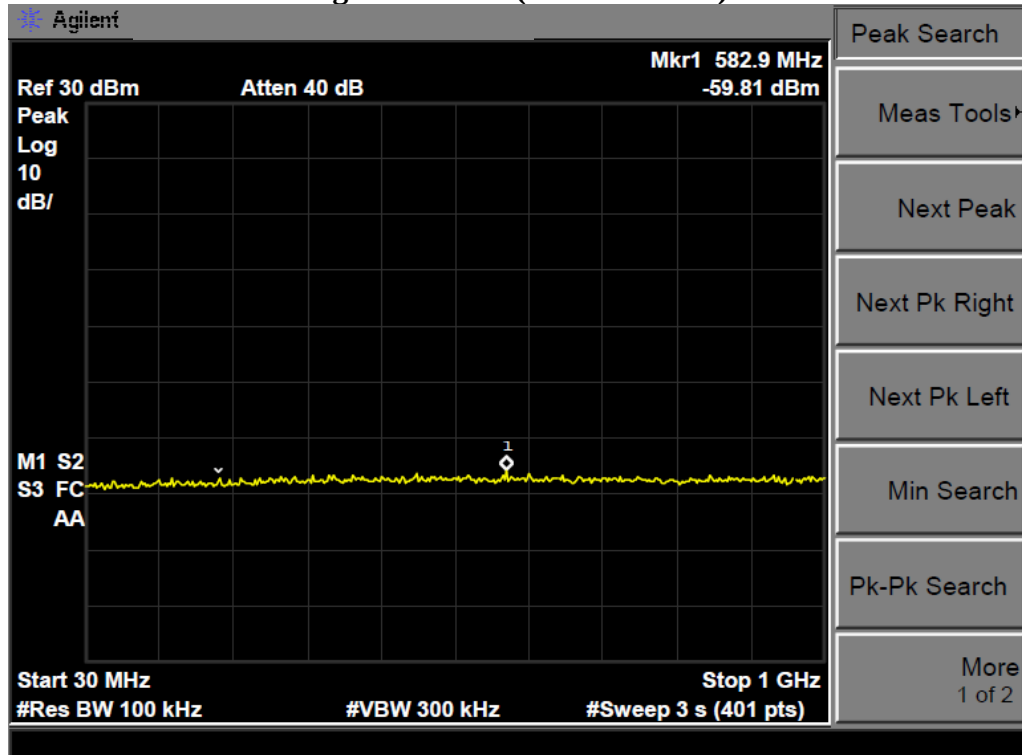
TX 802.11b Channel Middle 2437MHz (30MHz-1GHz)



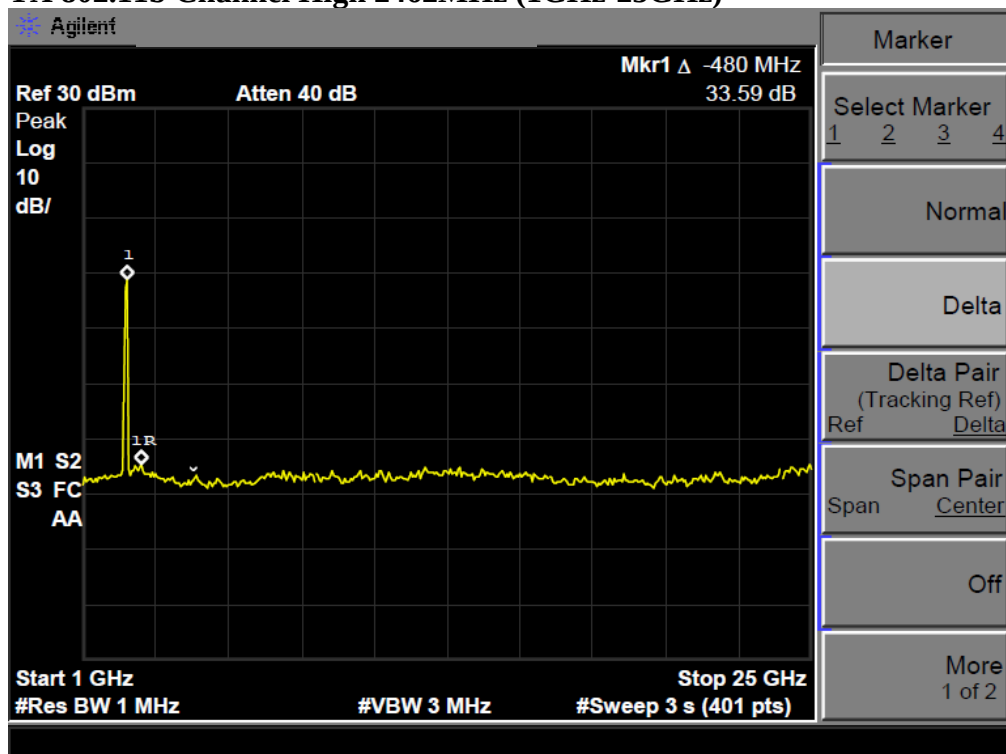
TX 802.11b Channel Middle 2437MHz (1GHz-25GHz)



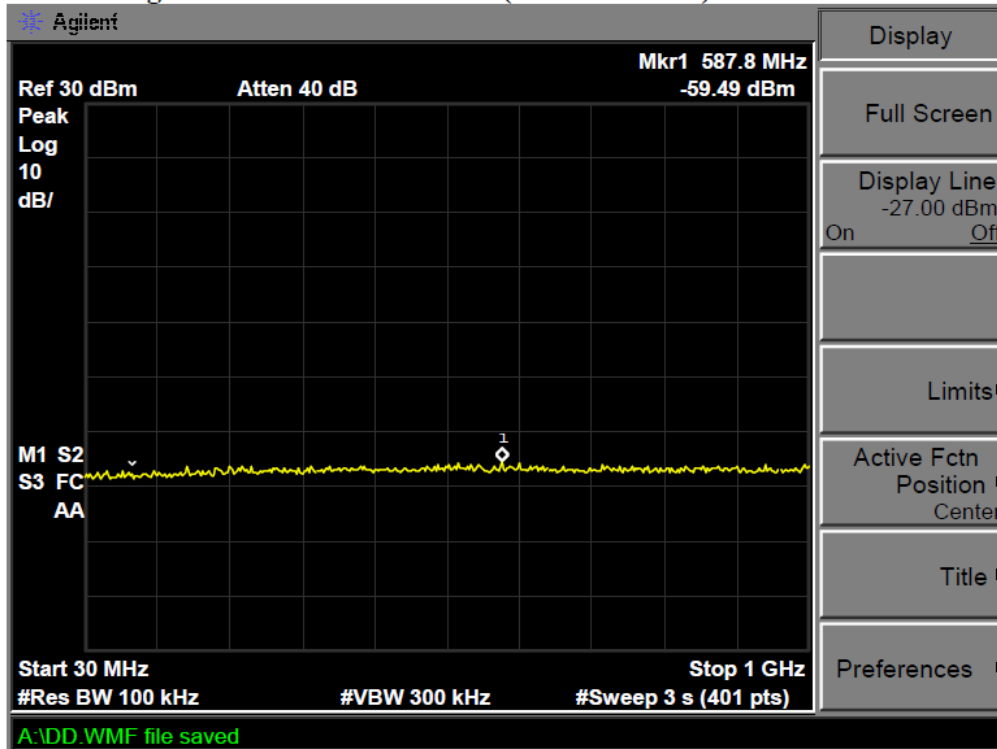
TX 802.11b Channel High 2462MHz (30MHz-1GHz)



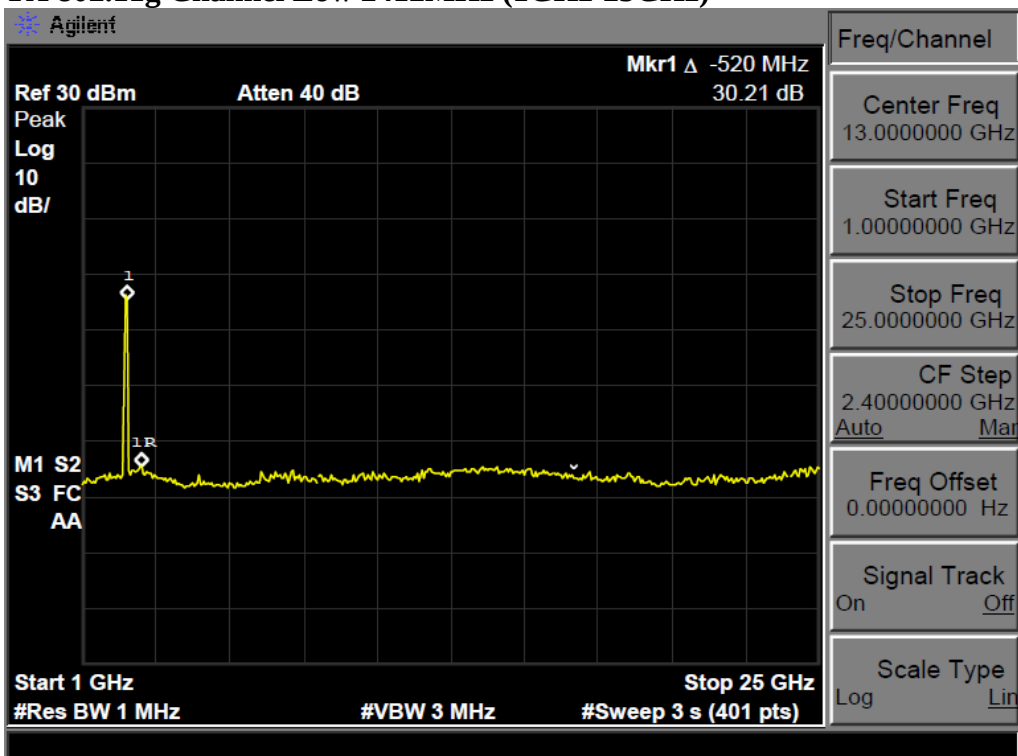
TX 802.11b Channel High 2462MHz (1GHz-25GHz)



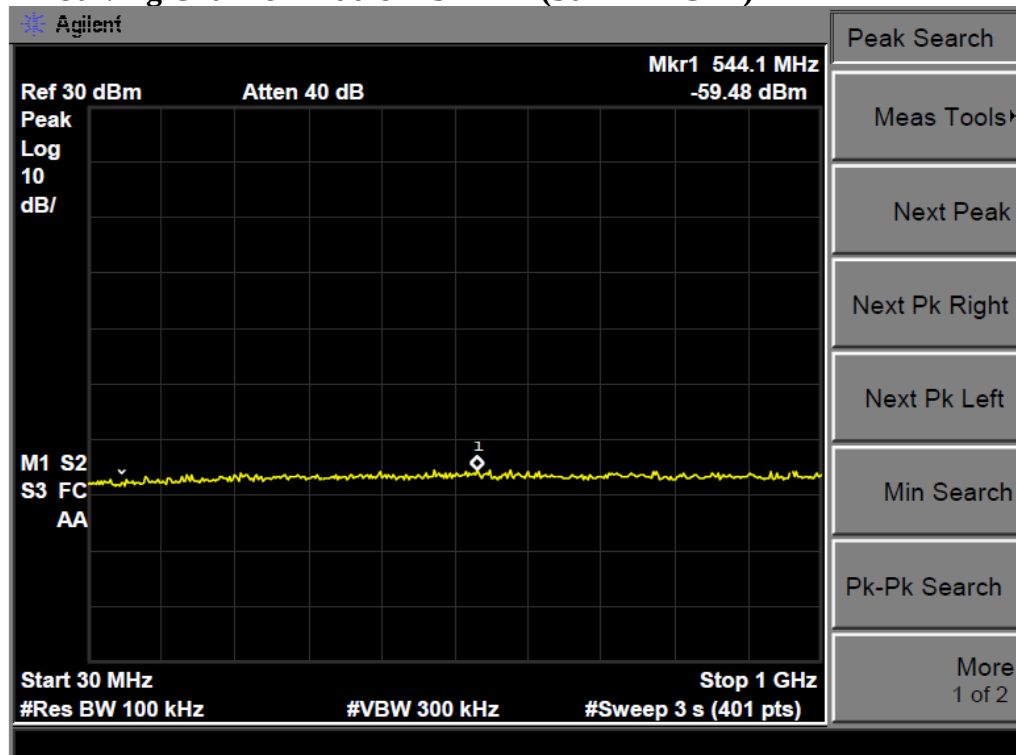
TX 802.11g Channel Low 2412MHz (30MHz-1GHz)



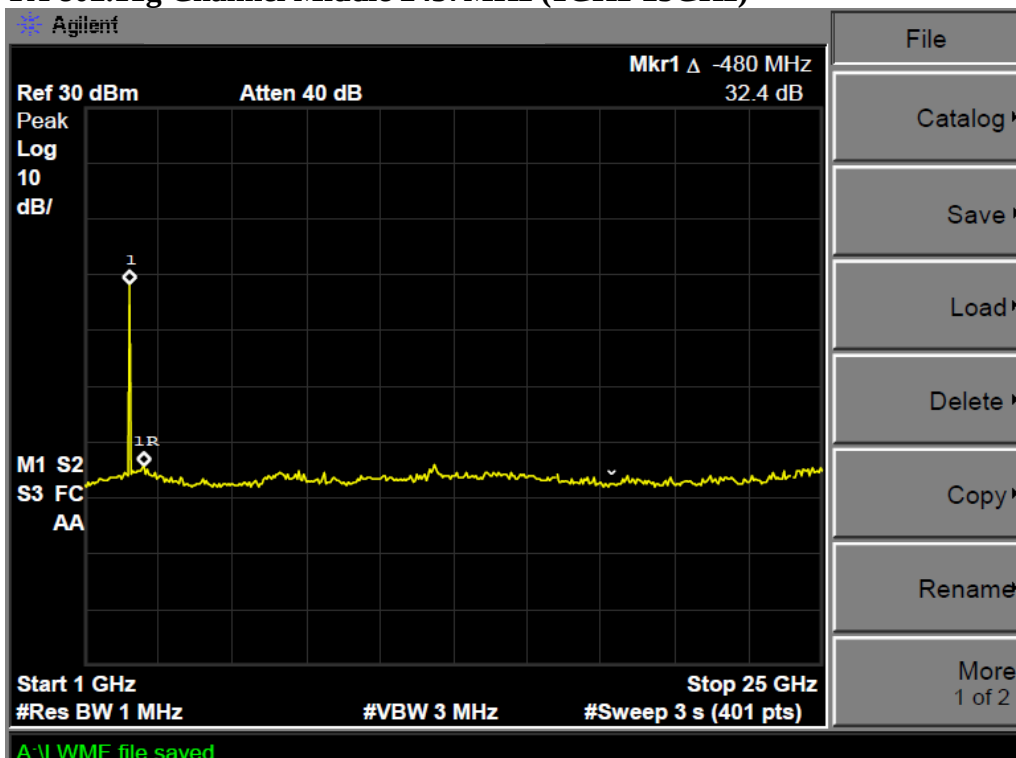
TX 802.11g Channel Low 2412MHz (1GHz-25GHz)



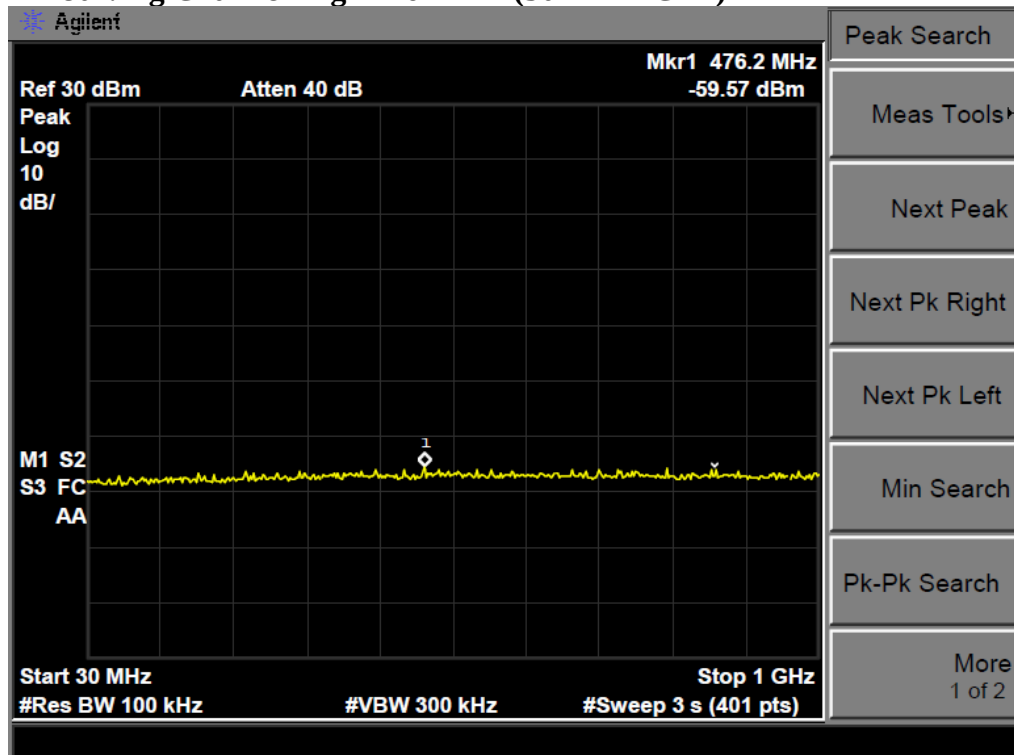
TX 802.11g Channel Middle 2437MHz (30MHz-1GHz)



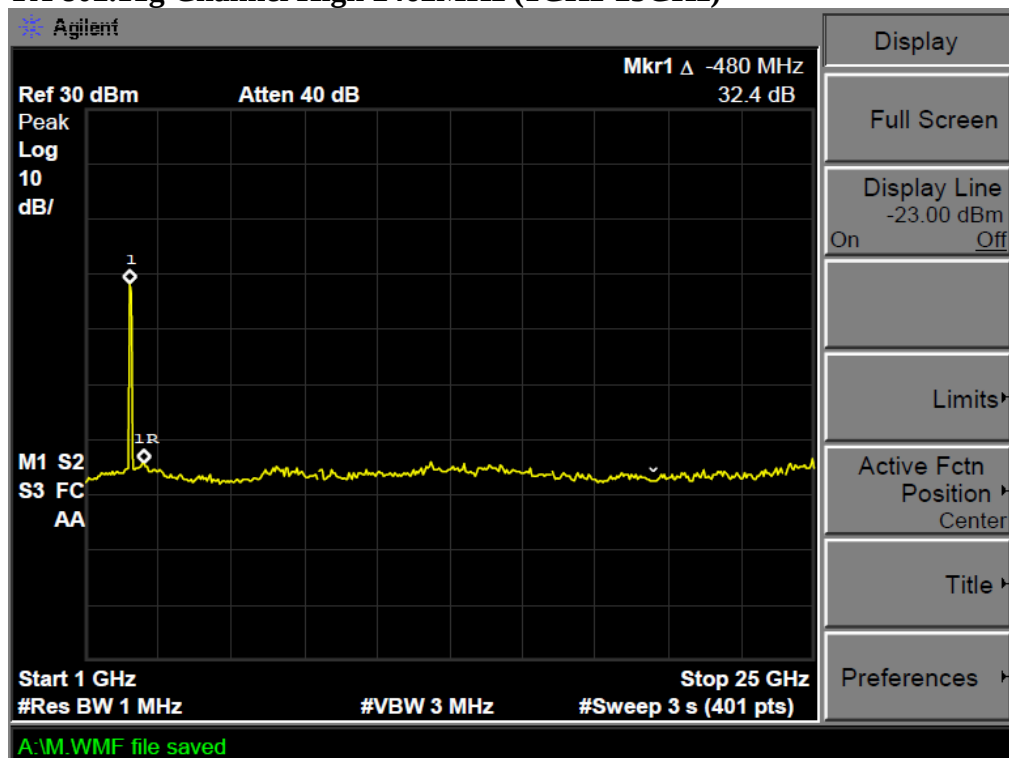
TX 802.11g Channel Middle 2437MHz (1GHz-25GHz)



TX 802.11g Channel High 2462MHz (30MHz-1GHz)



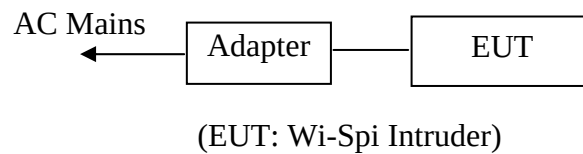
TX 802.11g Channel High 2462MHz (1GHz-25GHz)



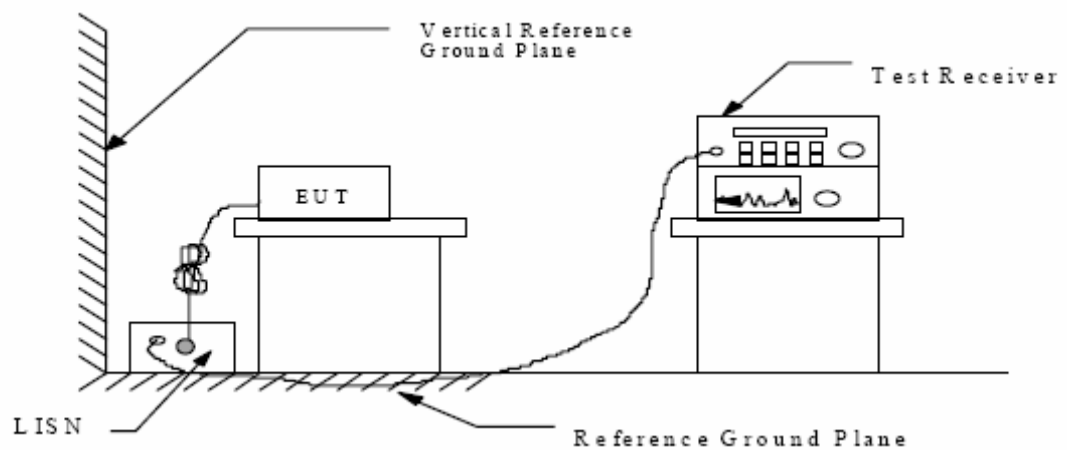
11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



11.1.2.Shielding Room Test Setup Diagram



11.2.The Emission Limit

11.2.1.Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

11.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.3.1.Wi-Spi Intruder (EUT)

Model Number : 44074
Serial Number : N/A
Manufacturer : Interactive Toy Concepts Limited

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in charging mode measure it.

11.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

11.6.Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Date of Test:	June 12, 2012	Temperature:	25°C
EUT:	Wi-Spi Intruder	Humidity:	50%
Model No.:	44074	Power Supply:	AC 120/60Hz
Test Mode:	Charging	Test Engineer:	Pei

Frequency (MHz)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector	Line
0.456875	47.20	56.7	-9.5	QP	Neutral
0.818313	31.50	56.0	-24.5	QP	
1.495236	34.30	56.0	-21.7	QP	
0.451436	34.80	46.8	-12.0	QP	
0.818313	20.50	46	-25.5	QP	
1.519304	22.70	46	-23.3	QP	
0.333299	30.60	59.4	-28.8	QP	Live
0.460537	40.60	56.7	-16.1	QP	
0.761574	28.90	56.0	-27.1	QP	
0.333299	18.10	49.2	-31.3	QP	
0.460537	29.70	46.7	-17.0	QP	
0.761574	16.80	46.0	-29.2	QP	

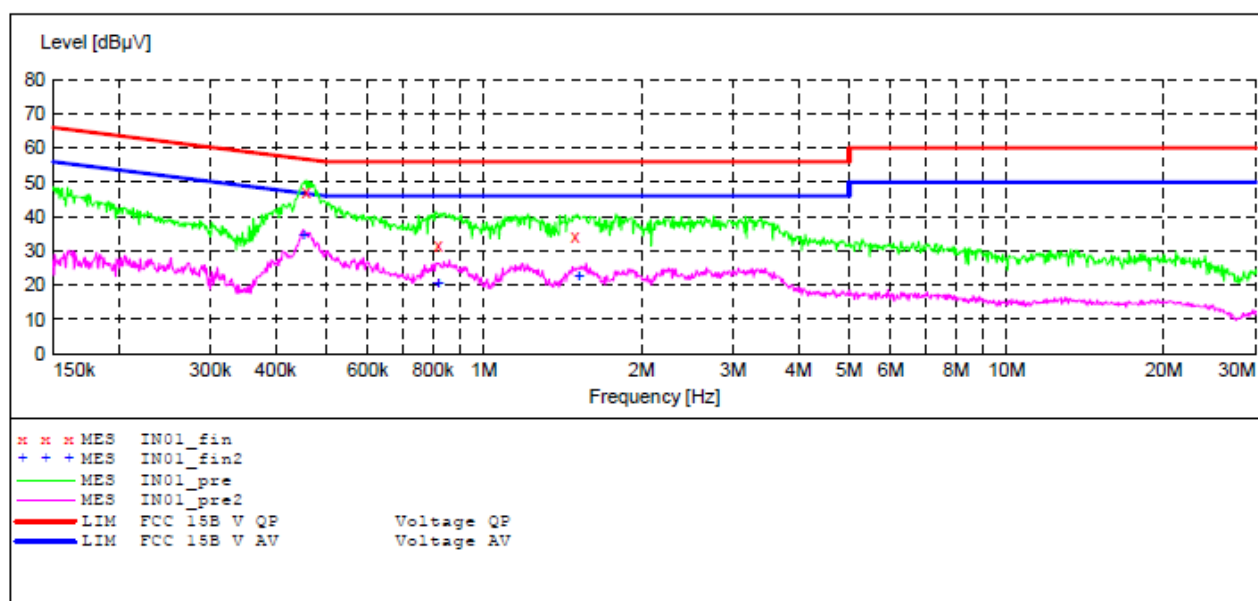
Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: Wi-Spi Intruder M/N:44074
 Manufacturer: Interactive
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20121030 Sample No.:1201949
 Start of Test: 6/12/2012 / 9:52:43AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "IN01_fin"**

6/12/2012 9:55AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.456875	47.20	11.9	56.7	9.5	QP	L1	GND
0.818313	31.50	11.9	56	24.5	QP	L1	GND
1.495236	34.30	11.7	56	21.7	QP	L1	GND

MEASUREMENT RESULT: "IN01_fin2"

6/12/2012 9:55AM

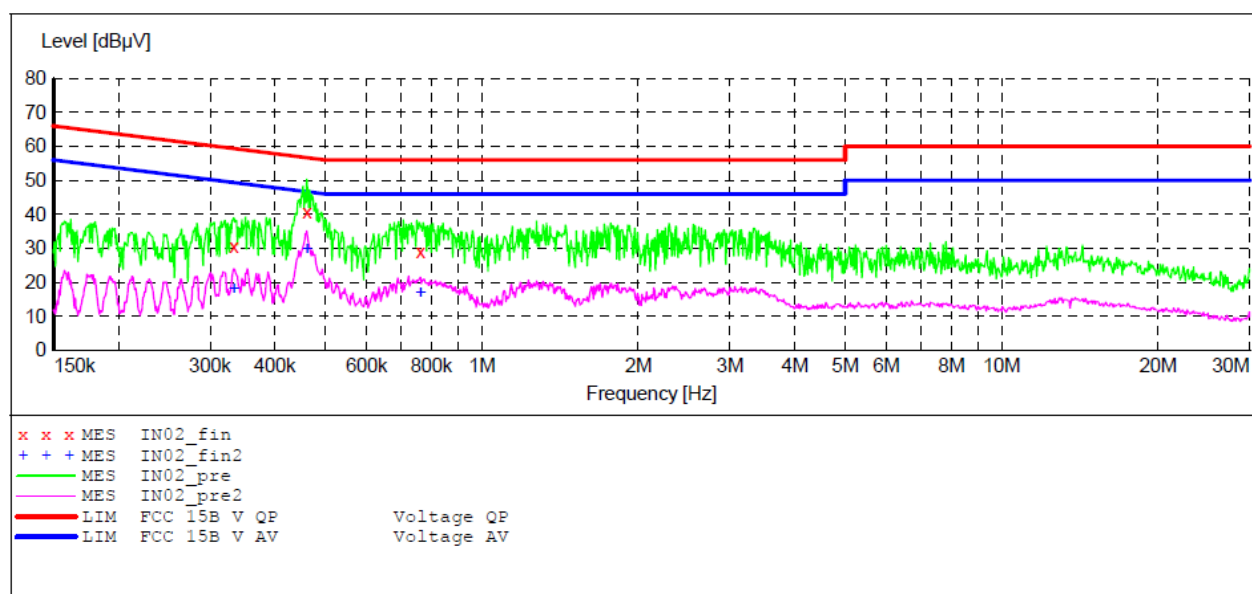
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.451436	34.80	11.9	46.8	12.0	AV	L1	GND
0.818313	20.50	11.9	46	25.5	AV	L1	GND
1.519304	22.70	11.7	46	23.3	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: Wi-Spi Intruder M/N:44074
 Manufacturer: Interactive
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20121030 Sample No.:1201949
 Start of Test: 6/12/2012 / 9:56:28AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "IN02_fin"**

6/12/2012 9:58AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.333299	30.60	11.7	59.4	28.8	QP	N	GND
0.460537	40.60	11.9	56.7	16.1	QP	N	GND
0.761574	28.90	11.9	56	27.1	QP	N	GND

MEASUREMENT RESULT: "IN02_fin2"

6/12/2012 9:58AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.333299	18.10	11.7	49.2	31.3	AV	N	GND
0.460537	29.70	11.9	46.7	17.0	AV	N	GND
0.761574	16.80	11.9	46	29.2	AV	N	GND

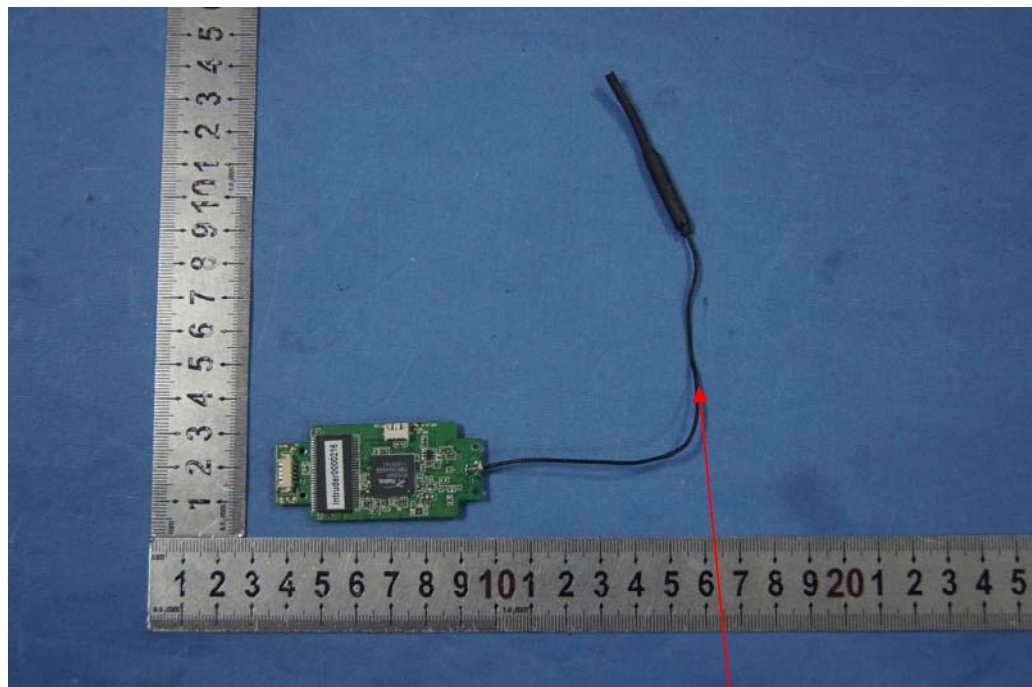
12.ANTENNA REQUIREMENT

12.1.The Requirement

According to 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.

12.2.Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna