

# **FCC Certification Test Report**

**BEIJING XIAOMI TECHNOLOGY Co., LTD.**

**MI BOX**

**MODEL: MDZ-05-XX**

**FCC ID: 2AAF5-MDZ05AB**

**REPORT# 13WB0524019F Rev 0**  
**20<sup>th</sup>.06.2013**

Prepared for:

**Beijing Xiaomi Technology Co., Ltd.**  
**The Rainbow City of China Resources, NO 68, Qinghe Middle Street,**  
**Haidian District, Beijing**

Prepared By:

**Washington International Technology Limited**

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**For the**  
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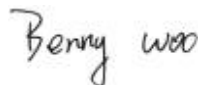
Prepared by:



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David Li

Reviewed by:



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Benny wu

## Abstract

This report has been prepared on behalf of Beijing Xiaomi Technology Co., Ltd. to support the attached Application for Equipment Authorization. The test report and application are submitted for a Spread Spectrum Transceiver under Part 15.247 of the FCC Rules and Regulations. This Federal Communication Commission (FCC) Certification Test Report documents the test configuration and test results for a Beijing Xiaomi Technology Co., Ltd. MI Box.

Testing was performed on an 966 Chamber of Inventec Appliances (Pudong) Co.,Ltd. No.789 PuXing Road,ShangHai,China Inventec Appliances (Pudong) Co.,Ltd. has been accepted by the FCC, the FCC Registration Number is 492199.

And Testing was performed by SIMT EMC Lab 716 Yi Shan Road, Shanghai. SIMT EMC Lab has been accepted by the FCC, the FCC Registration Number is 142171.

The MI Box is an IEEE 802.11b/802.11g/802.11n compliant device and complies with the limits for a Direct Sequence Spread Spectrum Transmitter device under Part 15.247 of the FCC Rules and Regulations.

Revision History	Reason	Date
Rev 0	Initial Release	20 <sup>th</sup> .06.2013

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## 1 Introduction

### 1.1 Compliance Statement

After the modifications listed in Section 2.5 were installed:

The Beijing Xiaomi Technology Co., Ltd. MI Box complies with the limits for a Spread Spectrum Transceiver device under Part 15.247 of the FCC Rules and Regulations.

Test Scope Summary

Tests for radiated and conducted emissions were performed. All measurements were performed according to the 2009 version of ANSI C63.10

Test Specification	Specific Description	Result	Modifications (Y/N)	Test Location
CFR47 Part 15.207	Conducted Emissions – AC Power Ports	Complied	No	SIMT EMC Lab
CFR47 Part 15.209	Radiated Emissions	Complied	No	Inventec Appliances (Pudong) Co.,Ltd.
CFR47 Part 15.247	RF Power Output	Complied	No	SIMT EMC Lab
CFR47 Part 15.247(d)	Spurious Emissions at Antenna Terminals	Complied	No	SIMT EMC Lab
CFR47 Part 15.247(d)	Radiated Spurious Emissions	Complied	No	Inventec Appliances (Pudong) Co.,Ltd.
CFR47 Part 15.247	Occupied Bandwidth	Complied	No	SIMT EMC Lab
CFR47 Part 15.247	Band Edge Measurement(Conducted)	Complied	No	SIMT EMC Lab
CFR47 Part 15.247	Band Edge Measurement(Radiated)	Complied	No	Inventec Appliances (Pudong) Co.,Ltd.
NOTE: The EUT is also considered as a kind of other class B digital device it has been verified to comply with the requirements of FCC Part 15B Class B(Verification) the test report has been issued by Inventec Appliances (Pudong) Co.,Ltd.				

### 1.2 Contract Information

Customer: Beijing Xiaomi Technology Co., Ltd.  
The Rainbow City of China Resources,NO 68,Qinghe  
Middle Street,Haidian District,Beijing

### 1.3 Test Dates

Testing was performed on the following date(s):

June 5 , 2013 to June 19, 2013

## 1.4 Abbreviations

<b>A</b>	<b>A</b> mpere
<b>ac</b>	<b>a</b> lternating <b>c</b> urrent
<b>AM</b>	<b>A</b> mplitude <b>M</b> odulation
<b>Amps</b>	<b>A</b> mperes
<b>b/s</b>	<b>b</b> its per second
<b>BW</b>	<b>B</b> and <b>W</b> idth
<b>CE</b>	<b>C</b> onducted <b>E</b> mission
<b>cm</b>	<b>C</b> entimeter
<b>CW</b>	<b>C</b> ontinuous <b>W</b> ave
<b>dB</b>	<b>d</b> ecibel
<b>dc</b>	<b>d</b> irect <b>c</b> urrent
<b>EMI</b>	<b>E</b> lectromagnetic <b>I</b> nterference
<b>EUT</b>	<b>E</b> quipment <b>U</b> nder <b>T</b> est
<b>FM</b>	<b>F</b> requency <b>M</b> odulation
<b>G</b>	<b>g</b> iga - prefix for $10^9$ multiplier
<b>Hz</b>	<b>H</b> ertz
<b>IF</b>	<b>I</b> ntermediate <b>F</b> requency
<b>k</b>	<b>k</b> ilo - prefix for $10^3$ multiplier
<b>LISN</b>	<b>L</b> ine <b>I</b> mpedance <b>S</b> tabilization <b>N</b> etwork
<b>M</b>	<b>M</b> ega - prefix for $10^6$ multiplier
<b>m</b>	<b>M</b> eter
<b>μ</b>	<b>m</b> icro - prefix for $10^{-6}$ multiplier
<b>NB</b>	<b>N</b> arrow <b>b</b> and
<b>QP</b>	<b>Q</b> uasi- <b>P</b> eak
<b>RE</b>	<b>R</b> adiated <b>E</b> missions
<b>RF</b>	<b>R</b> adio <b>F</b> requency
<b>rms</b>	<b>r</b> oot- <b>m</b> ean- <b>s</b> quare
<b>SN</b>	<b>S</b> erial <b>N</b> umber
<b>S/A</b>	<b>S</b> pectrum <b>A</b> nalyzer
<b>V</b>	<b>V</b> olt

## 2 Equipment Under Test

### 2.1 EUT Identification

The results obtained relate only to the item(s) tested.

**Table 1: Overview of MI Box, Equipment Under Test**

ITEM	DESCRIPTION
Manufacturer:	Beijing Xiaomi Technology Co., Ltd.
FCC ID Number	2AAF5-MDZ05AB
EUT Name:	MI BOX
Test Model:	MDZ-05-AB, see the model description
FCC Rule Parts:	§15.247
Frequency Range:	IEEE 802.11b/g/n(HT20) : 2412 – 2462MHz IEEE 802.11n(HT40): 2422 – 2452 MHz
Maximum Output Power:	IEEE 802.11b: 20.32dBm IEEE 802.11g: 23.82dBm IEEE 802.11n HT20: 23.68dBm IEEE 802.11n HT40: 24.15dBm
Modulation:	Direct Sequence Spread Spectrum
Necessary Bandwidth:	N/A
Keying:	Automatic
Type of Information:	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
Number of Channels:	IEEE 802.11b/g/n(HT20) : 11 IEEE 802.11n(HT40): 7
Antenna Type	Soldered on PCB see the PCB Photo
Frequency Tolerance:	N/A
Emission Type(s):	N/A
Interface Cables:	None
Power Source & Voltage:	5 VDC from 120VAC/60Hz



## 2.2 EUT Description

The MI BOX is a network based Set Top Box for household users. By connecting it to IP network through Ethernet interface or Wifi, it can stream videos over the network to TV display panel via HDMI or AV connection.

Product Name: MI Box

Model No. : MDZ-05-XX

Tested Model No.: MDZ-05-AB

EUT Rated Voltage: DC 5V, 2A

I/O Ports: Rear Side: (1) RJ-45 Port\*1; (2) USB Port\*1; (3) DC in Port\*1;  
(4) HDMI Port\*1; (5) Audio out Port\*1

## Model and Revision Statement

**Model and Revision Statement**

**MDZ-05-XX series Internet Set Top Box (STB)**

**Description**

The MDZ-05-AB is one type of STB within the MDZ-05 series. This series will have multiple models subsequently. The main differences for these STBs are as follow:

1. The Trademark and logo will be different
2. Each model will have revised styling and appearances
3. The software version will be different

Xiaomi's MDZ-05 series product will use the same PCB board; retain same size and weight, future revisions of the product are in styling and software only.

Xiaomi will be responsible for all consequences caused by various models of MDZ-05 series STB, and for any of the above-mentioned differences.

MDZ

05

X

X

Software version(A-Z)  
The software version will be only different from user's operation interface

Device styling version(A-Z)  
Each model will have different color, shape appearances and customer number.

05: Xiaomi's product code for STB

MDZ: Xiaomi's product code

Signature/Title: 王坤 工程师

Signature date: 2013-6-8

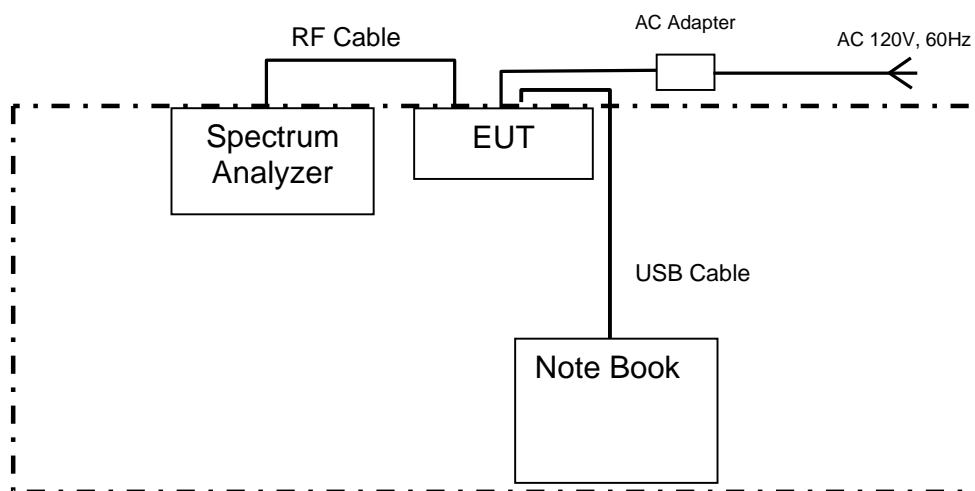
Company Name: 北京小米科技有限责任公司  
Beijing Xiaomi Technology Co., LTD

## 2.3 Test Configuration

The Beijing Xiaomi Technology Co., Ltd. MI Box, Equipment Under Test (EUT), was operated from a Input VAC120 Output 5VDC 2A power supply.

The EUT was configured with a adaptor power supply, an antenna, a support NB with usb cable. The EUT firmware/software was set up to control power, bit rate, and channel selection.

### Conducted test setup :



### Radiated test setup:

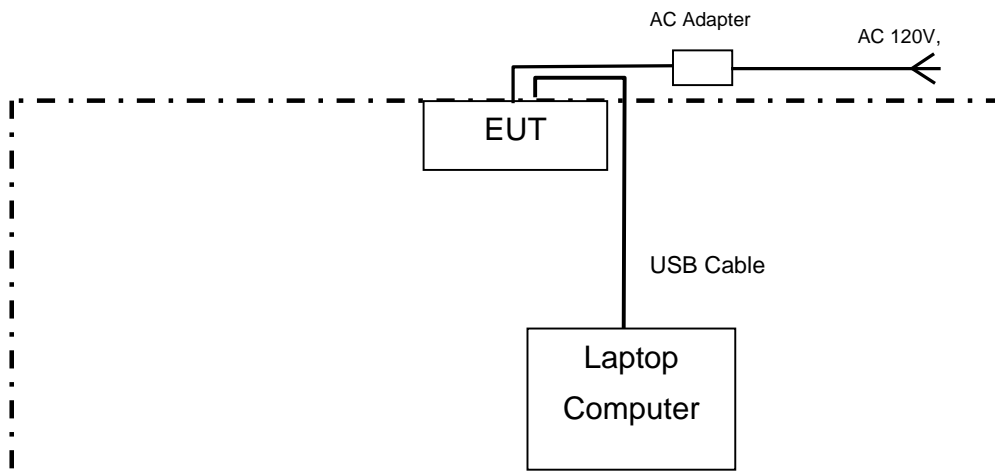


Figure 1: Test Configuration

## 2.4 Equipment Configuration

The EUT was set up as outlined in Figure 1. The EUT was comprised of the following equipment. (All Modules, PCBs, etc. listed were considered as part of the EUT, as tested.)

**Table 2: Equipment Configuration**

Name / Description	Model Number	Part Number	Serial Number	Revision
MI Box	MDZ-05-AB	/	/	/
AC Adapter	DSA-12PFA-05 FUS 050200	/	/	/

## 2.5 EUT Modifications

No The following modifications were performed in order to meet the test requirements:

## 2.6 Testing Algorithm

The MDZ-05-AB MI Box was operated using and drivers.

## 2.7 Test Location

All measurements herein were performed at Inventec Appliances (Pudong) Co.,Ltd. No.789 PuXing Road,ShangHai,China Inventec Appliances (Pudong) Co.,Ltd. has been accepted by the FCC, the FCC Registration Number is **492199**.

And Testing was performed by SIMT EMC Lab 716 Yi Shan Road, Shanghai. SIMT EMC Lab has been accepted by the FCC, the FCC Registration Number is **142171**.

## 2.8 Measurements

### 2.8.1 Measurement Method

All measurements were performed according to the 2009 version of ANSI C63.10 for testing compliance of a wide variety of unlicensed wireless devices

## 2.9 Measurement Uncertainty

All results reported herein relate only to the equipment tested. The basis for uncertainty calculation uses ANSI/NCSL Z540-2-1997 with a type B evaluation of the standard uncertainty. Elements contributing to the standard uncertainty are combined using the method described in Equation 1 to arrive at the total standard uncertainty. The standard uncertainty is multiplied by the coverage factor to determine the expanded uncertainty which is generally accepted for use in commercial, industrial, and regulatory applications and when health and safety are concerned (see Equation 2). A coverage factor was selected to yield a 95% confidence in the uncertainty estimation.

### Equation 1: Standard Uncertainty

$$u_c = \pm \sqrt{\frac{a^2}{div_a^2} + \frac{b^2}{div_b^2} + \frac{c^2}{div_c^2} + \dots}$$

where  $u_c$  = standard uncertainty  
 $a, b, c, \dots$  = individual uncertainty elements  
 $div_{a, b, c}$  = the individual uncertainty element divisor based on the probability distribution  
divisor = 1.732 for rectangular distribution  
divisor = 2 for normal distribution  
divisor = 1.414 for trapezoid distribution

### Equation 2: Expanded Uncertainty

$$U = k u_c$$

where  $U$  = expanded uncertainty  
 $k$  = coverage factor  
 $k \leq 2$  for 95% coverage (ANSI/NCSL Z540-2 Annex G)  
 $u_c$  = standard uncertainty

The measurement uncertainty complies with the maximum allowed uncertainty from CISPR 16-4-2. Measurement uncertainty is not used to adjust the measurements to determine compliance. The expanded uncertainty values for the various scopes in the WLL accreditation are provided in

Table 3 below.

**Table 3: Expanded Uncertainty List**

Scope	Standard(s)	Expanded Uncertainty
Conducted Emissions	CISPR11, CISPR22, CISPR14, FCC Part 15	1.69 dB
Radiated Emissions 30MHz-1GHz	CISPR11, CISPR22, CISPR14, FCC Part 15	4.55 dB
Radiated Emissions 1GHz-26.5GHz Horizontal	CISPR11, CISPR22, CISPR14, FCC Part 15	4.63dB
Radiated Emissions 1GHz-26.5GHz Vertical	CISPR11, CISPR22, CISPR14, FCC Part 15	4.73dB

### 3 Test Equipment

Table 4 shows a list of the test equipment used for measurements along with the calibration information.

**Table 4: Test Equipment List**

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	calibration interval
1	EMI Test Receiver	R & S	ESCS 30/ 100070	Jul.4, 2012	1 Year
2	ARTIFICIAL MAINS NETWORK	R & S	ESH2-Z5/100030	Mar.18,2013	1 Year
3	CESR	Franconia	N/A	Nov.23,2012	1 Year
4	System Software	R & S	ES-K1/V1.6.1	Sep.13, 2012	1 Year
5	Spectrum Analyzer	R&S	FSP30	July.14.2012	1 Year
6	Receiver	R&S	ESCI/100330	Feb.22.2012	1 Year
7	Pre-Amplifier	Agilent	83006A	May.02.2013	1 Year
8	Bi-log Antenna	R&S	HL562	Nov.08.2012	1 Year
9	Horn Antenna	R&S	HF906	Aug.01.2012	1 Year
10	Amplifier	Agilent	8447D/2944A11200	Aug 15 ,2012	1 Year
11	Cold-heat climate test chamber	/	GDW-60B	Jan.3,2013	1 Year
12	Signal Generator	R&S	SMF100A	Aug.14,2012	1 Year
13	Spectrum analyzer	R&S	FSU 26	Dec.4,2012	1 Year
14	Power Meter	R&S	NRVD /101776	Dec.30,2012	1 Year
15	Power sensor	R&S	NRP-Z81/100555	Dec.30,2012	1 Year
16	Filter	R&S	SYSTEM INTEGRATED/12&4&3&9	Nov.14,2012	1 Year

## 4 Test Results

### 4.1 RF Power Output:

To measure the output power the unit was set to transmit on a low, high and middle channel. The output from the transmitter was connected to an attenuator and then to the input of a detector diode. The output of the detector diode was displayed on an oscilloscope. The trace deflection was recorded and the transmitter was replaced with a signal generator at the same frequency. The output of the signal generator was increased until the trace deflection was the same as it was with the transmitter. The signal from the generator was then connected to a power meter and the level was taken.

#### 4.1.1 Limit (FCC Part 15.247b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

#### 4.1.2 Test Procedure

- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 and HT40 mode, use a PK power meter which's bandwidth is 20MHz up to 40MHz and above 6dB bandwidth of signal to measure out each test modes' PK output power.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.



**Table 5 RF Power Output**

Frequency		Attenuator (dB)	Cable loss (dB)	Level (dBm)	Limit (dBm)	Pass/Fail
IEEE 802.11b	Channel 1: 2412 MHz 1Mbps	20	1.3	18.26	30	Pass
	Channel 1: 2412 MHz 5.5Mbps	20	1.3	18.77	30	Pass
	<b>Channel 1: 2412 MHz 11Mbps</b>	<b>20</b>	<b>1.3</b>	<b>19.83</b>	<b>30</b>	<b>Pass</b>
IEEE 802.11b	Channel 6: 2432 MHz 1Mbps	20	1.3	18.73	30	Pass
	<b>Channel 6: 2432 MHz 5.5Mbps</b>	<b>20</b>	<b>1.3</b>	<b>19.63</b>	<b>30</b>	<b>Pass</b>
	Channel 6: 2432 MHz 11Mbps	20	1.3	19.21	30	Pass
IEEE 802.11b	Channel 11: 2462 MHz 1Mbps	20	1.3	19.26	30	Pass
	<b>Channel 11: 2462 MHz 5.5Mbps</b>	<b>20</b>	<b>1.3</b>	<b>20.32</b>	<b>30</b>	<b>Pass</b>
	Channel 11: 2462 MHz 11Mbps	20	1.3	19.76	30	Pass
IEEE 802.11g	Channel 1: 2412 MHz 6Mbps	20	1.3	23.70	30	Pass
	Channel 1: 2412 MHz 24Mbps	20	1.3	22.62	30	Pass
	<b>Channel 1: 2412 MHz 54Mbps</b>	<b>20</b>	<b>1.3</b>	<b>23.72</b>	<b>30</b>	<b>Pass</b>
IEEE 802.11g	Channel 6: 2432 MHz 6Mbps	20	1.3	22.93	30	Pass
	Channel 6: 2432 MHz 24Mbps	20	1.3	22.59	30	Pass
	<b>Channel 6: 2432 MHz 54Mbps</b>	<b>20</b>	<b>1.3</b>	<b>23.79</b>	<b>30</b>	<b>Pass</b>
IEEE 802.11g	Channel 11: 2462 MHz 6Mbps	20	1.3	23.11	30	Pass
	Channel 11: 2462 MHz 24Mbps	20	1.3	23.63	30	Pass
	<b>Channel 11: 2462 MHz 54Mbps</b>	<b>20</b>	<b>1.3</b>	<b>23.82</b>	<b>30</b>	<b>Pass</b>
IEEE 802.11n HT20	<b>Channel 1: 2412 MHz 6.5Mbps</b>	<b>20</b>	<b>1.3</b>	<b>23.31</b>	<b>30</b>	<b>Pass</b>
	Channel 1: 2412 MHz 39Mbps	20	1.3	23.02	30	Pass
	Channel 1: 2412 MHz 65Mbps	20	1.3	23.29	30	Pass
IEEE 802.11n HT20	<b>Channel 6: 2432 MHz 6.5Mbps</b>	<b>20</b>	<b>1.3</b>	<b>23.58</b>	<b>30</b>	<b>Pass</b>
	Channel 6: 2432 MHz 39Mbps	20	1.3	23.37	30	Pass
	Channel 6: 2432 MHz 65Mbps	20	1.3	23.57	30	Pass

IEEE	<b>Channel 11: 2462 MHz 6.5Mbps</b>	<b>20</b>	<b>1.3</b>	<b>23.68</b>	<b>30</b>	<b>Pass</b>
802.11n	Channel 11: 2462 MHz 39Mbps	20	1.3	23.53	30	Pass
HT20	Channel 11: 2462 MHz 65Mbps	20	1.3	23.65	30	Pass
IEEE	<b>Channel 3: 2422 MHz 6.5Mbps</b>	<b>20</b>	<b>1.3</b>	<b>23.67</b>	<b>30</b>	<b>Pass</b>
802.11n	Channel 3: 2422 MHz 39Mbps	20	1.3	22.89	30	Pass
HT40	Channel 3: 2422 MHz 65Mbps	20	1.3	22.94	30	Pass
IEEE	<b>Channel 6: 2437 MHz 6.5Mbps</b>	<b>20</b>	<b>1.3</b>	<b>23.99</b>	<b>30</b>	<b>Pass</b>
802.11n	Channel 6: 2437MHz 39Mbps	20	1.3	23.33	30	Pass
HT40	Channel 6: 2437 MHz 65Mbps	20	1.3	23.39	30	Pass
IEEE	<b>Channel 9: 2452 MHz 6.5Mbps</b>	<b>20</b>	<b>1.3</b>	<b>24.15</b>	<b>30</b>	<b>Pass</b>
802.11n	Channel 9: 2452 MHz 39Mbps	20	1.3	23.51	30	Pass
HT40	Channel 9: 2452 MHz 65Mbps	20	1.3	23.63	30	Pass

Note1: According exploratory test, EUT will have maximum output power as above bolded data rate, so those data rate were used for all test.

## 4.2 RF Power Spectral Density

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer. The analyzer offset was adjusted to compensate for the attenuator and other losses in the system.

### 4.2.1 Limit

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

### 4.2.2 Test Procedure

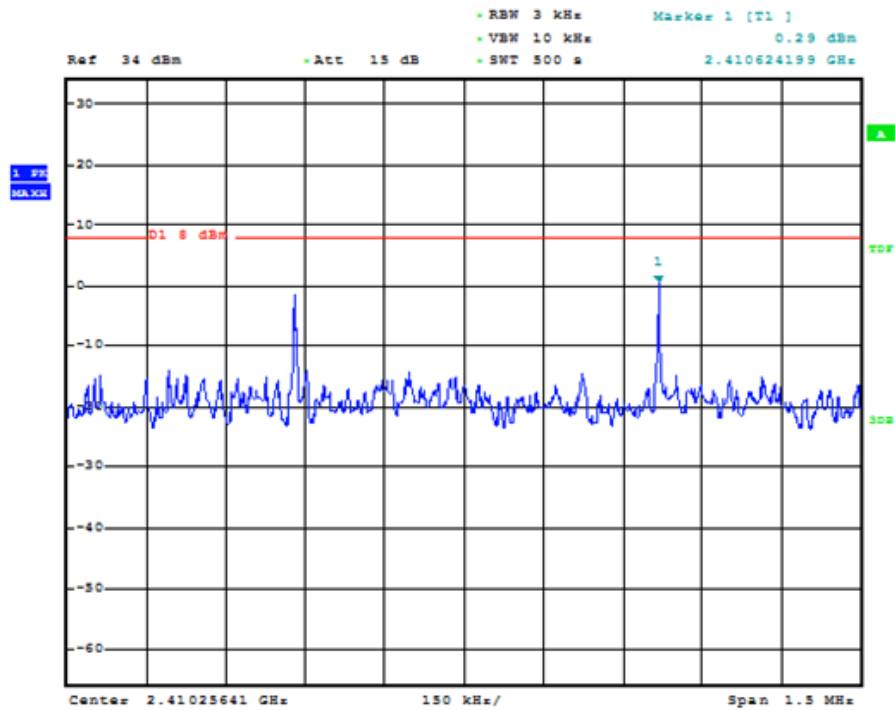
The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 3kHz RBW and 10kHz VBW, sweep time=span/3kHz.

**Table 6 RF Power Spectral Density**

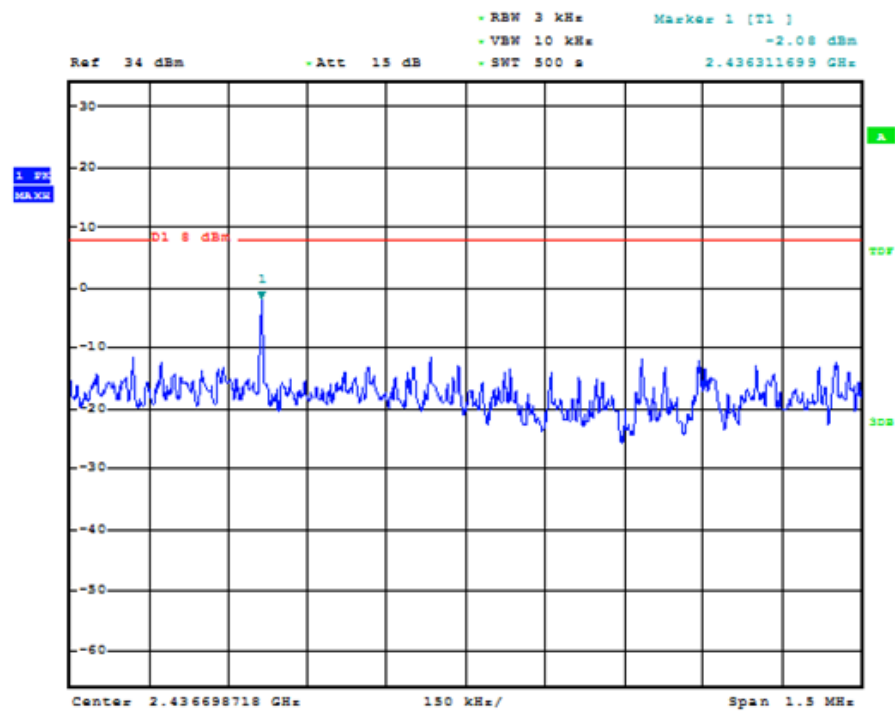
Frequency		Cable loss (dB)	Attenuator (dB)	Result (dBm)	Limit (dBm)	Pass/Fail
IEEE 802.11b	Channel 1: 2412 MHz	1.3	20	0.29	8	Pass
	Channel 6: 2437 MHz	1.3	20	-2.04	8	Pass
	Channel 11: 2462 MHz	1.3	20	-10.97	8	Pass
IEEE 802.11g	Channel 1: 2412 MHz	1.3	20	-18.17	8	Pass
	Channel 6: 2432 MHz	1.3	20	-17.30	8	Pass
	Channel 11: 2462 MHz	1.3	20	-14.85	8	Pass
IEEE 802.11n HT 20	Channel 1: 2412 MHz	1.3	20	-17.34	8	Pass
	Channel 6: 2432 MHz	1.3	20	-13.73	8	Pass
	Channel 11: 2462 MHz	1.3	20	-15.18	8	Pass
IEEE 802.11n HT 40	Channel 1: 2422 MHz	1.3	20	-17.93	8	Pass
	Channel 4: 2437 MHz	1.3	20	-17.44	8	Pass
	Channel 7: 2452 MHz	1.3	20	-19.45	8	Pass

Test Mode: IEEE 802.11b TX

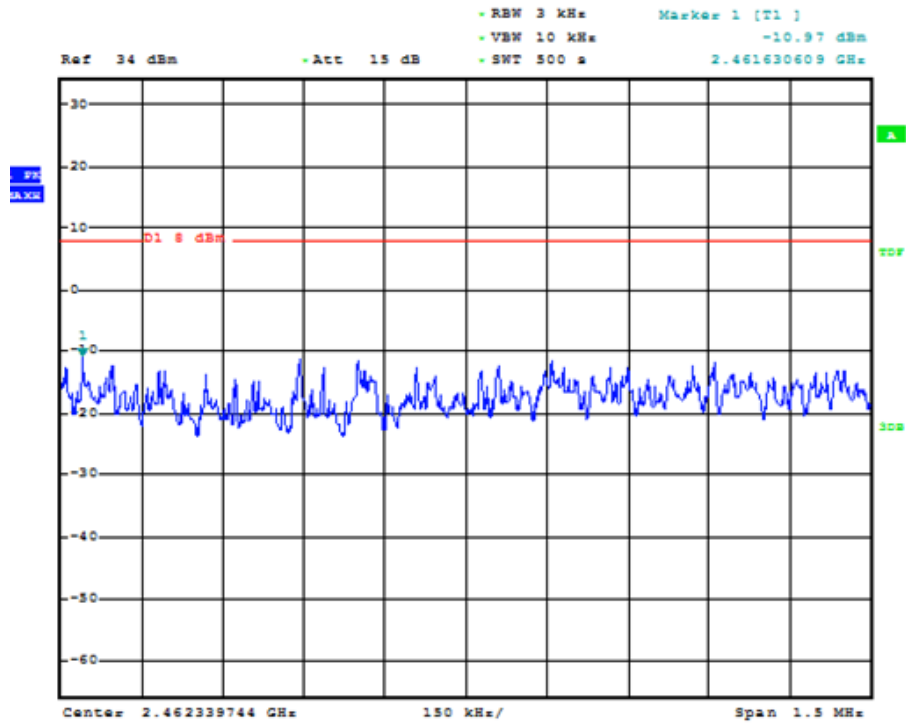
Test CH1: 2412MHz



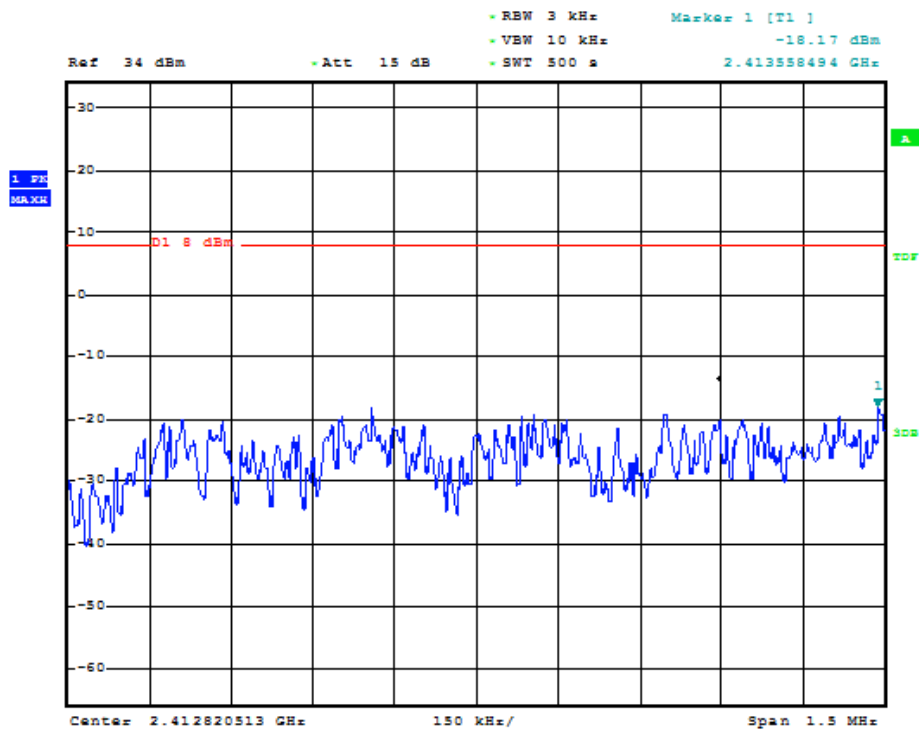
Test CH6: 2437MHz



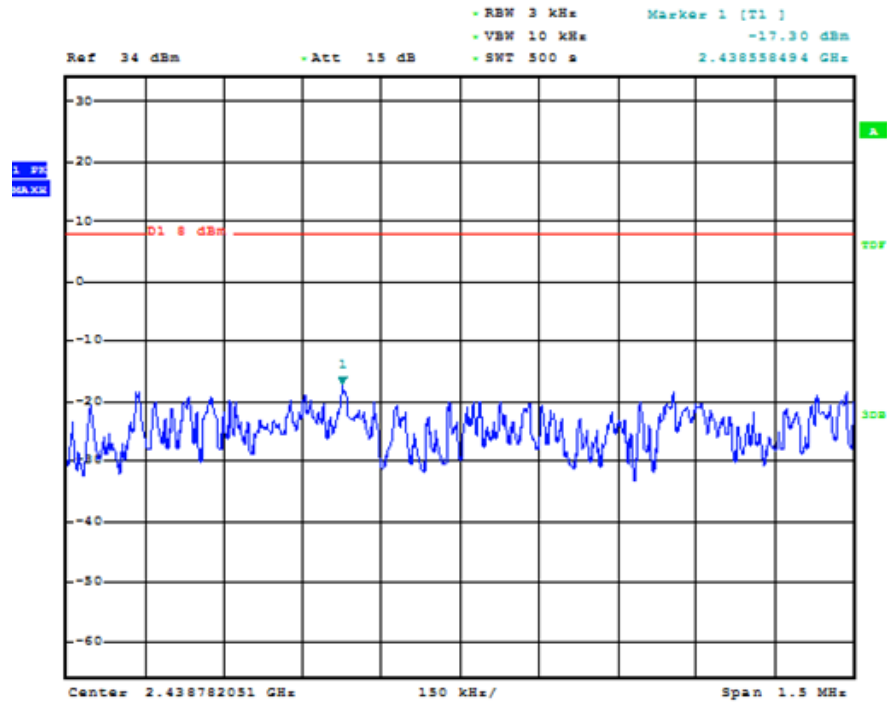
Test CH1: 2462MHz



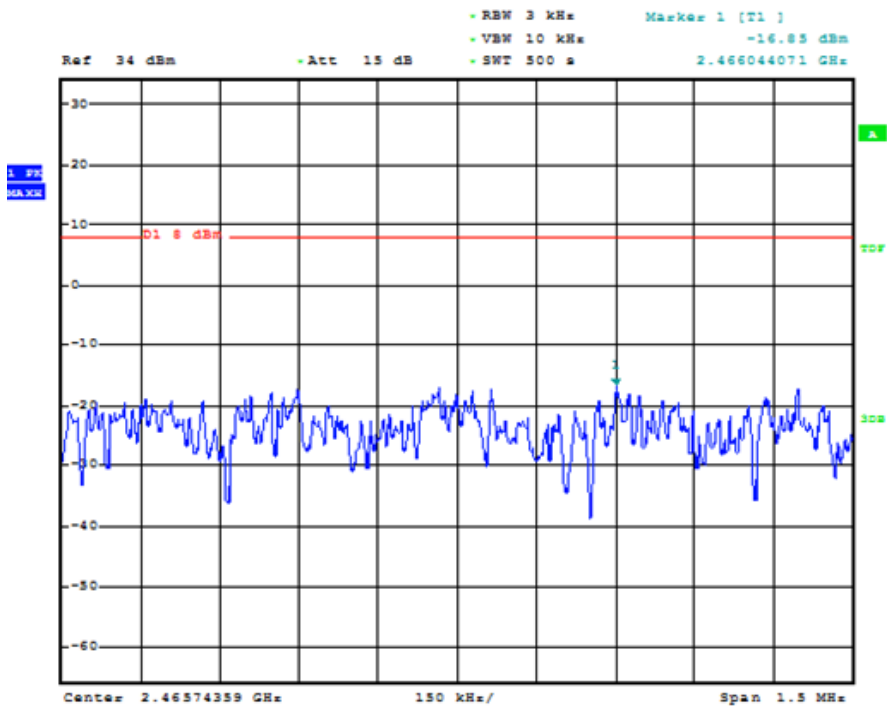
Test Mode: IEEE 802.11g TX Test CH1: 2412MHz



Test CH6: 2437MHz

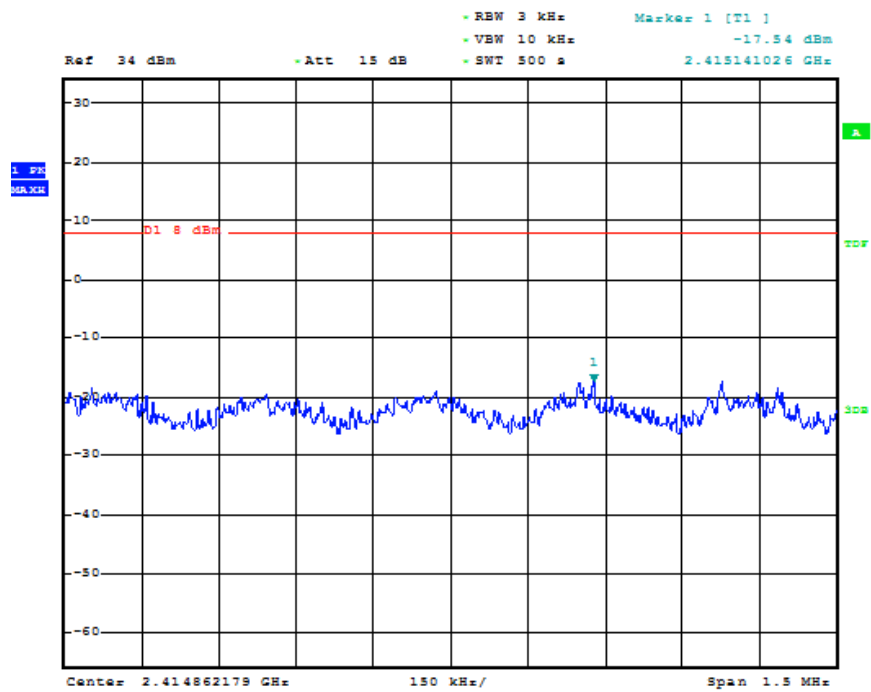


Test CH11: 2462MHz

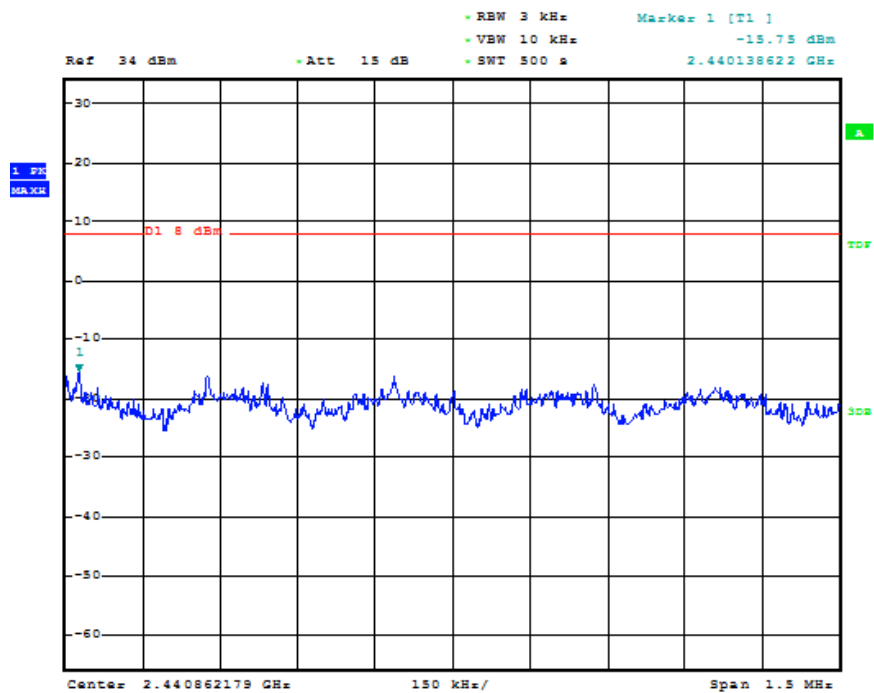


Test Mode: IEEE 802.11n HT20 TX

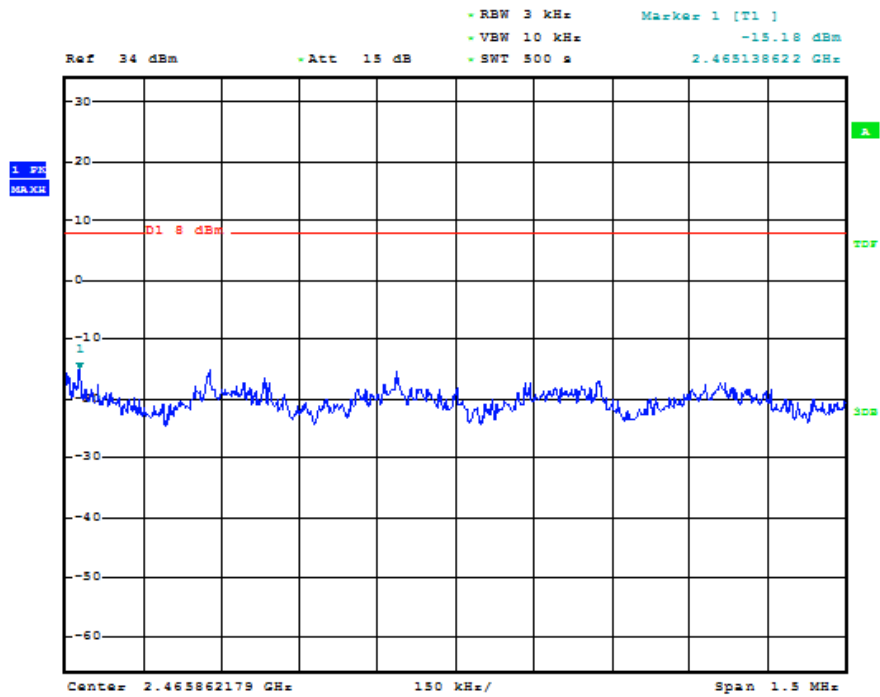
Test CH1: 2412MHz



Test CH6: 2437MHz

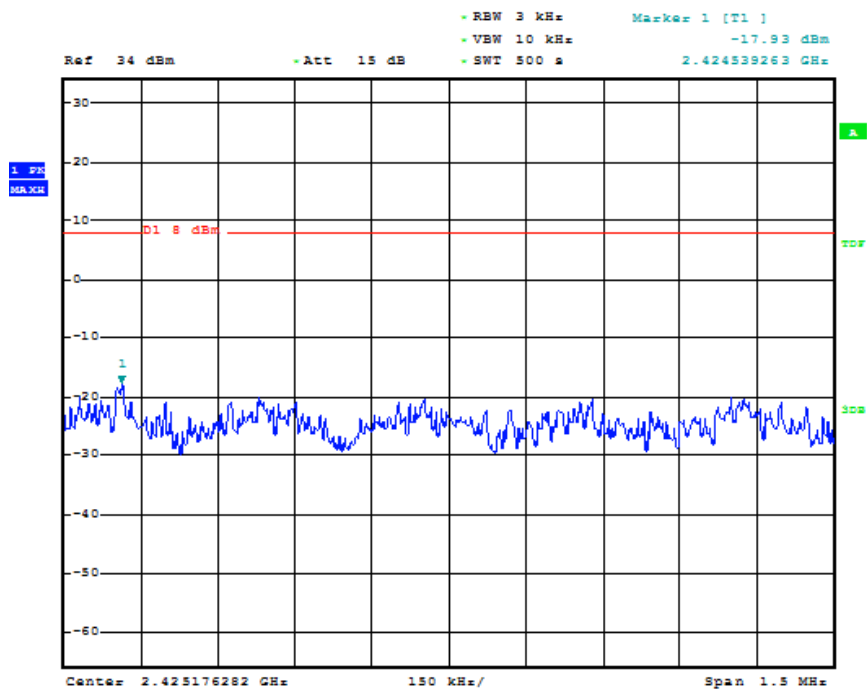


Test CH11: 2462MHz



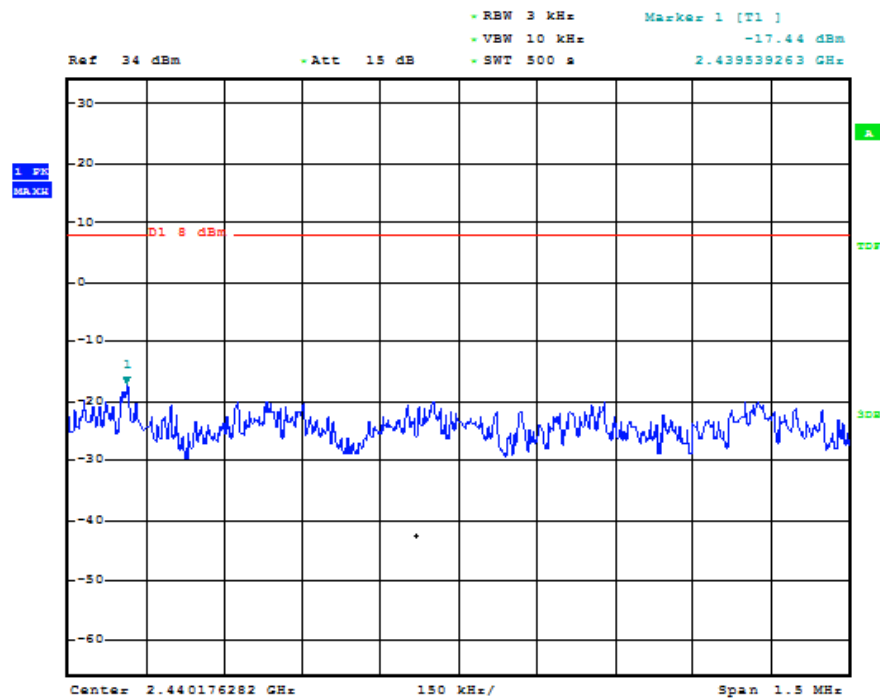
Test Mode: IEEE 802.11n HT40 TX

Test CH3: 2422MHz

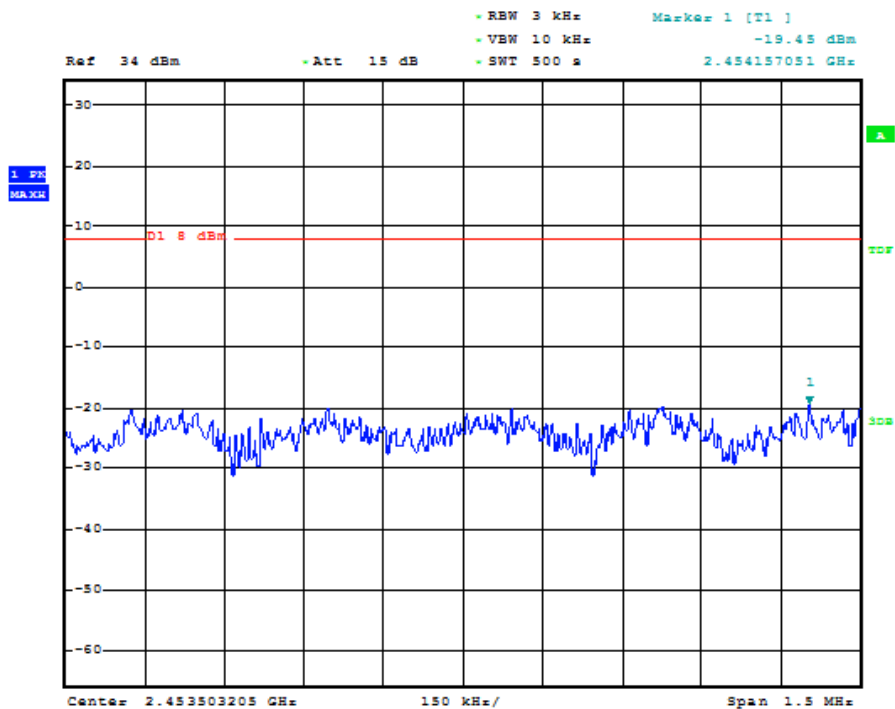




# Test CH6: 2437MHz



# Test CH9: 2452MHz



### **4.3 Occupied Bandwidth**

Occupied bandwidth was performed by coupling the output of the EUT to the input of a spectrum analyzer.

#### **4.3.1 Limit**

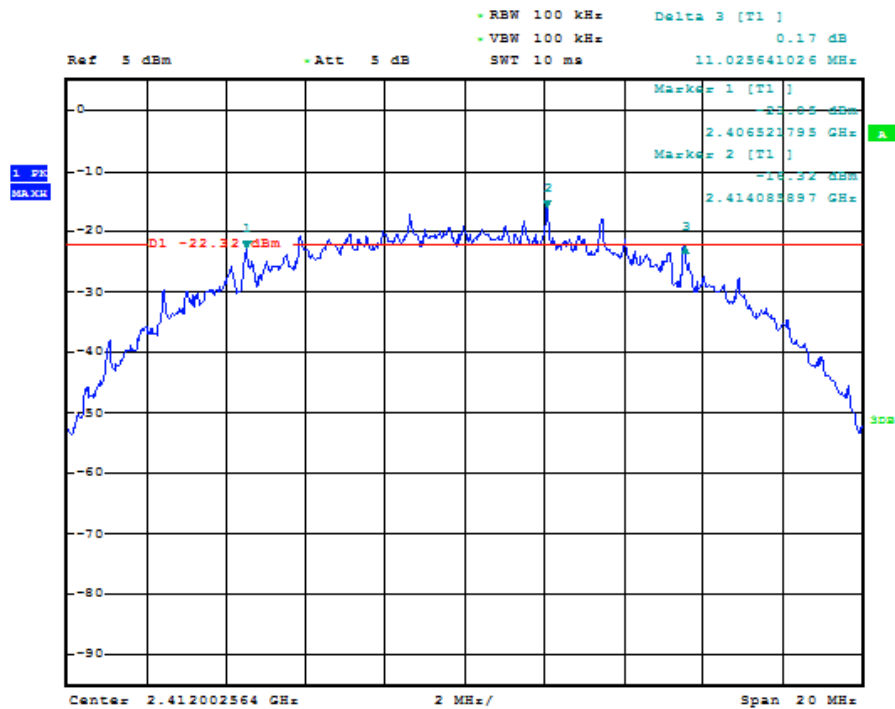
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

#### **4.3.2 Test Procedure**

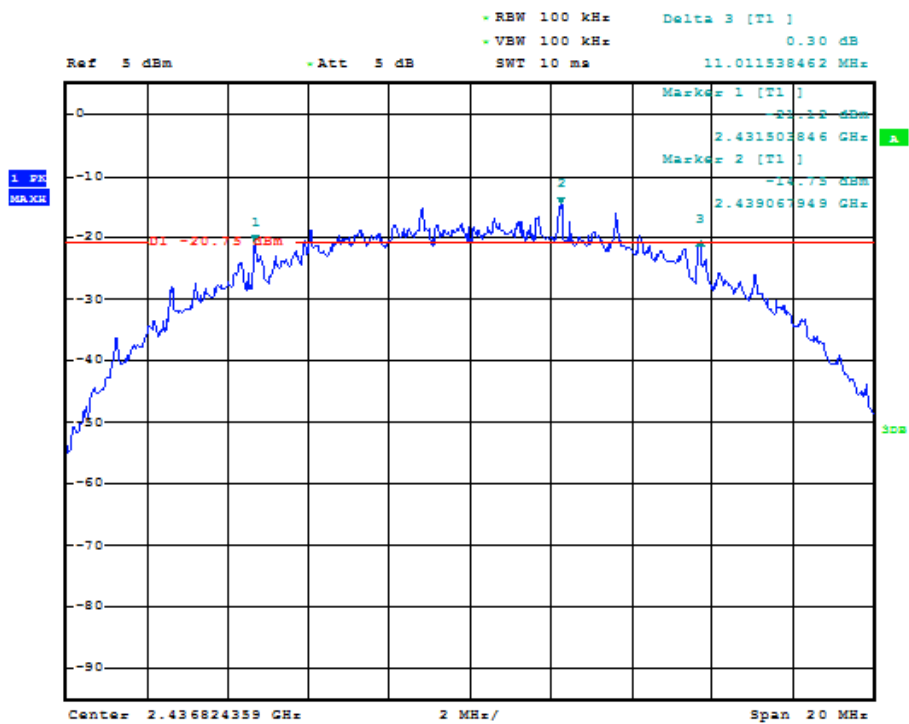
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

Test Mode: IEEE 802.11b TX

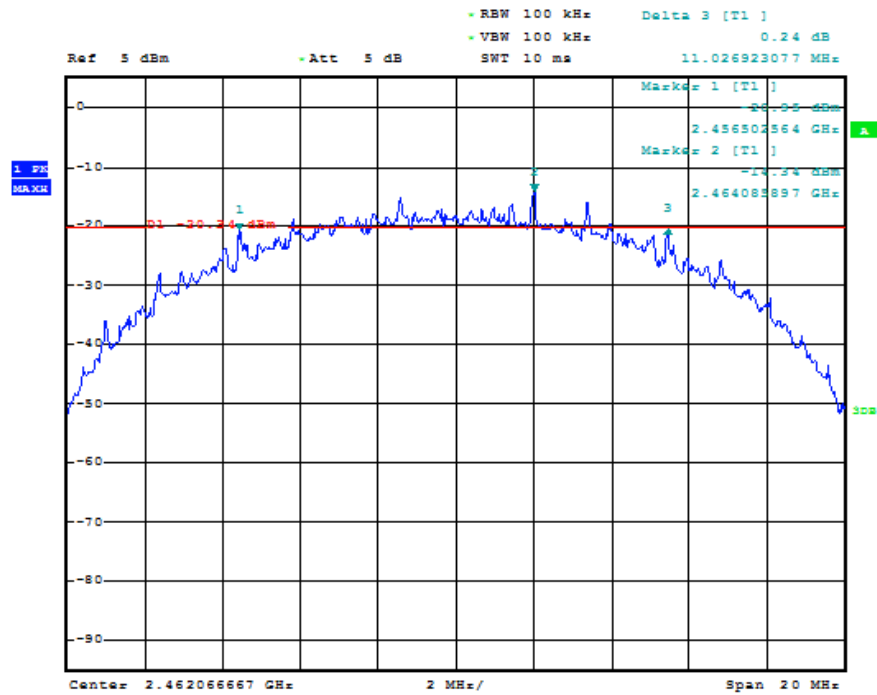
Test CH1: 2412MHz



Test CH6: 2432MHz

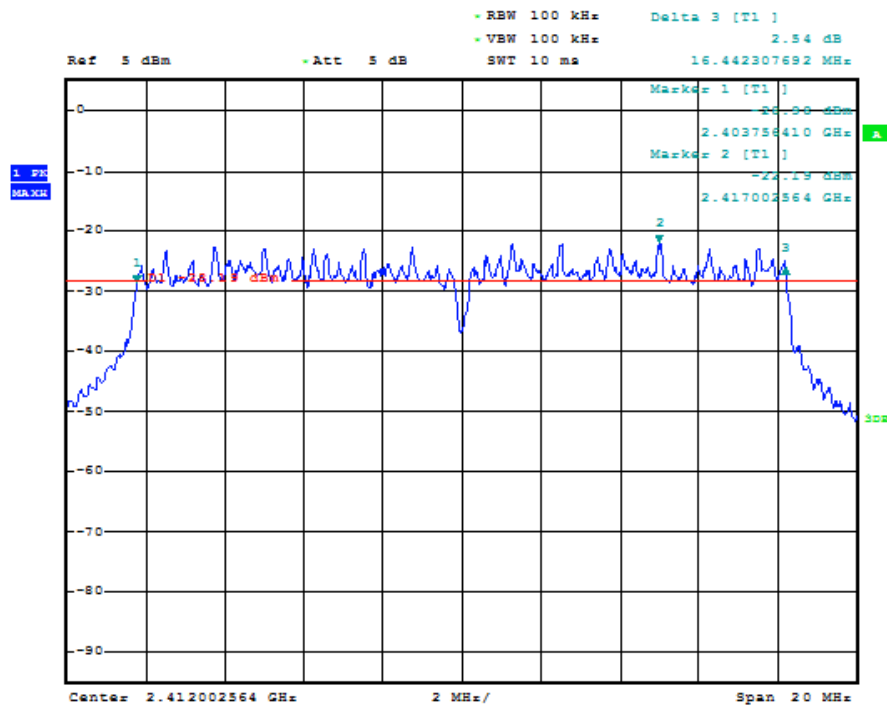


Test CH1: 2462MHz

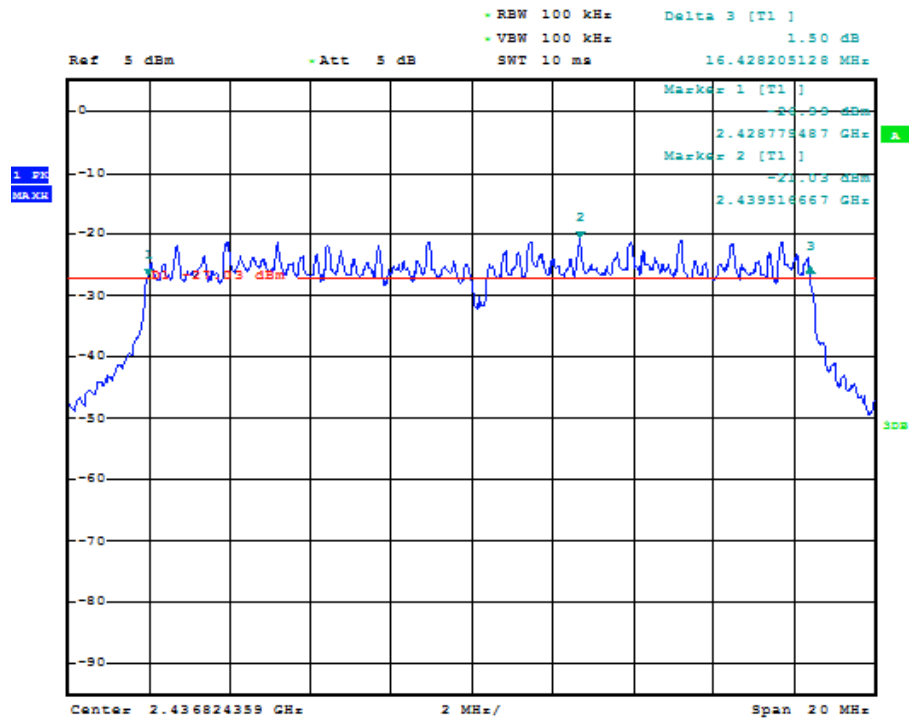


Test Mode: IEEE 802.11g TX

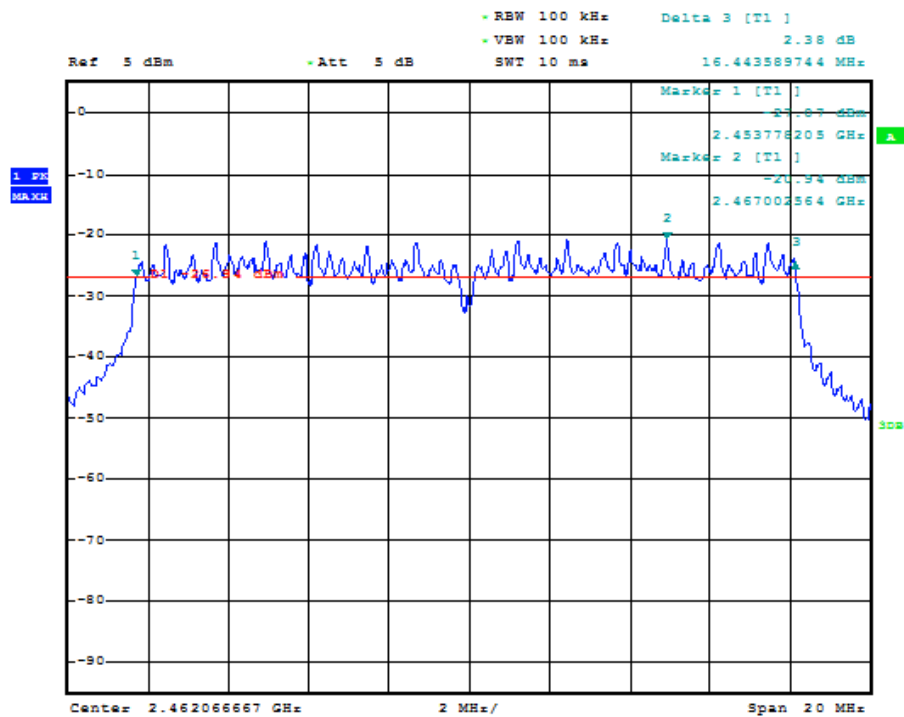
Test CH1: 2412MHz



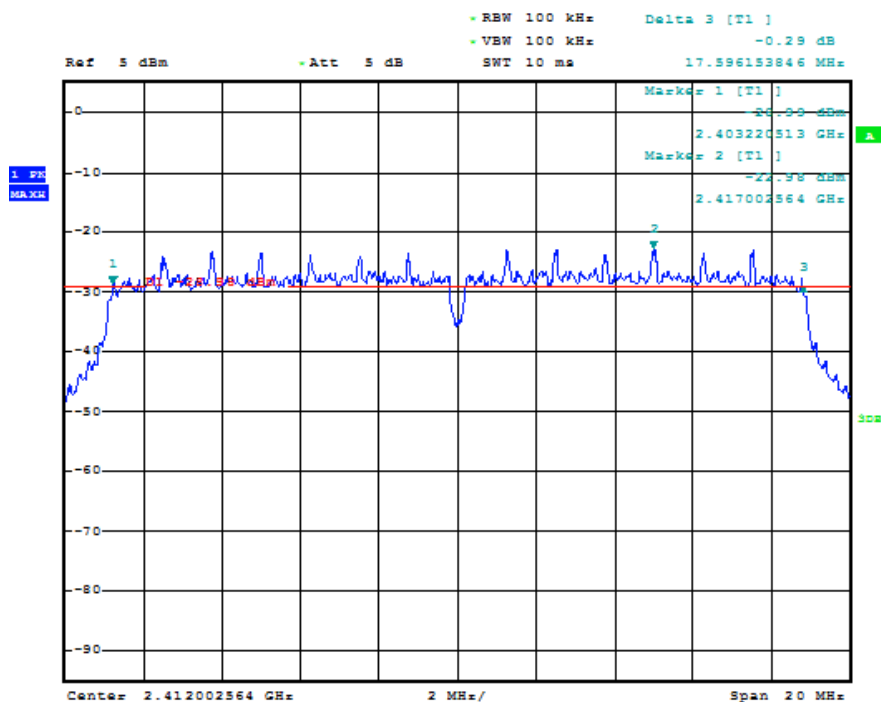
# Test CH6: 2432MHz



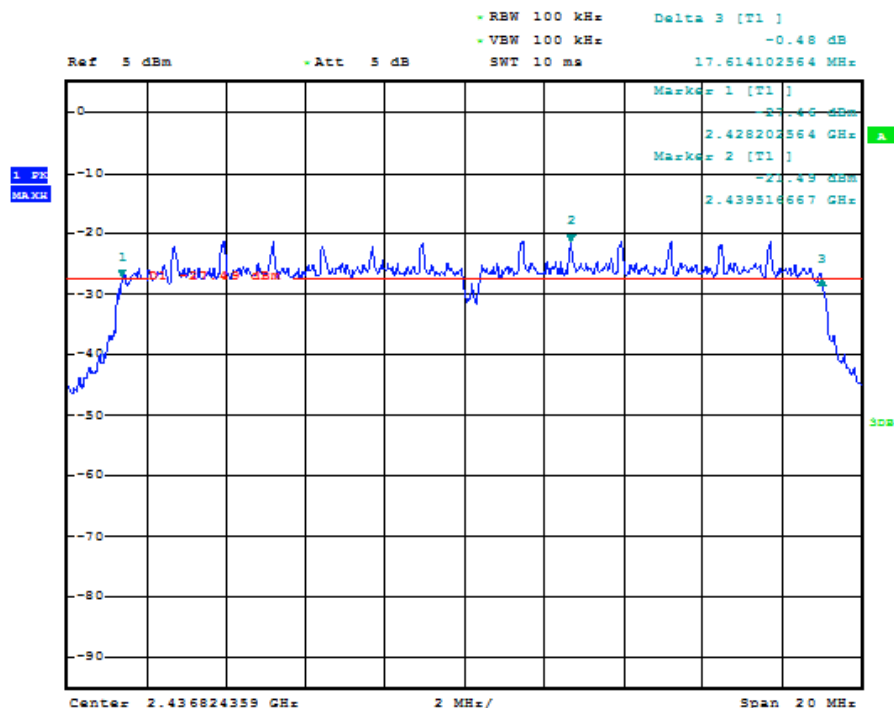
# Test CH11: 2462MHz



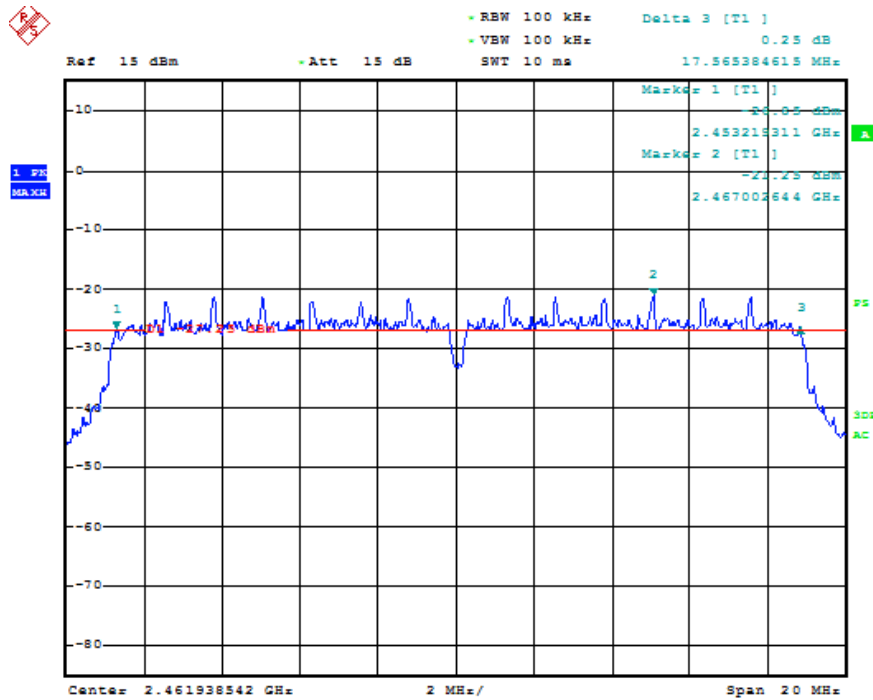
Test Mode: IEEE 802.11n HT20 TX Test CH1: 2412MHz



Test CH6: 2437MHz

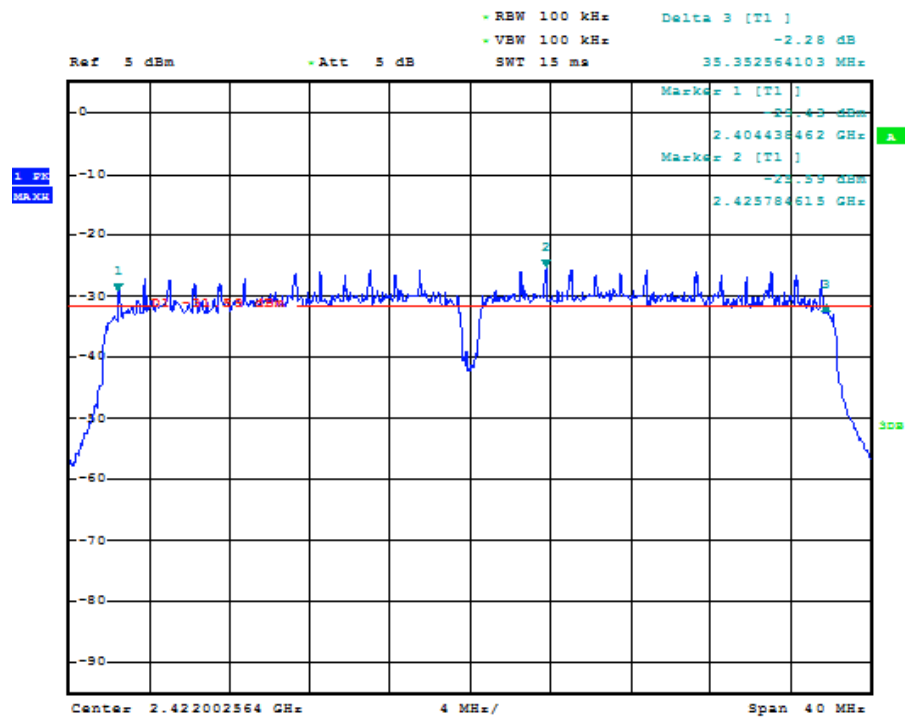


Test CH11: 2462MHz

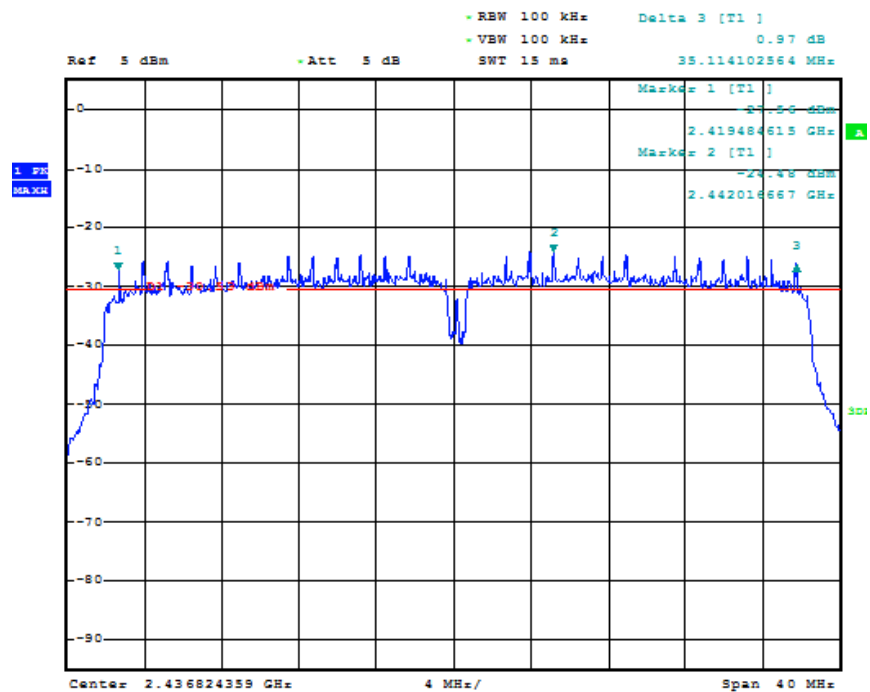


Test Mode: IEEE 802.11n HT40 TX

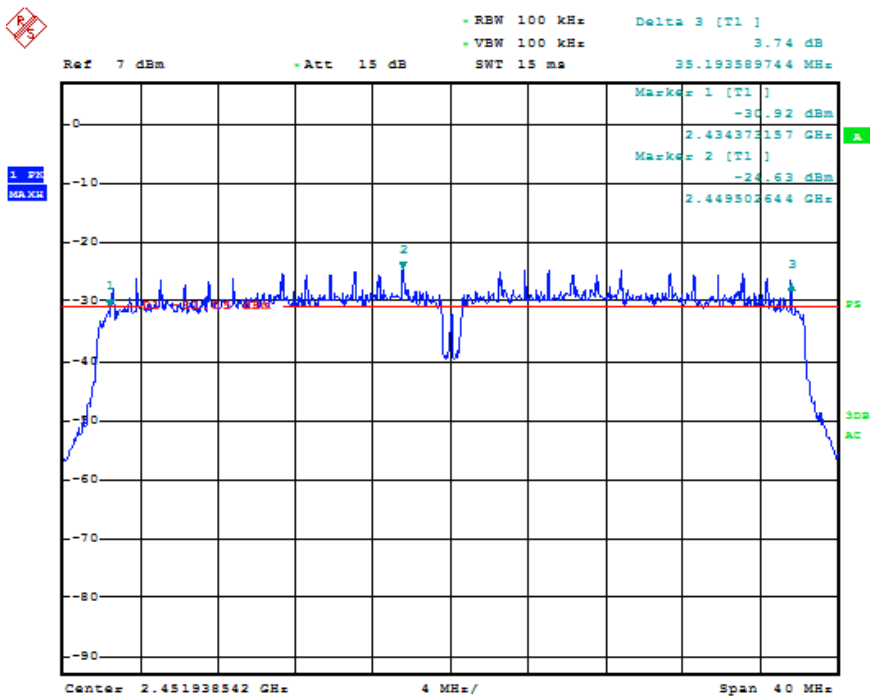
Test CH3: 2422MHz



Test CH6: 2437MHz



Test CH9: 2452MHz





**Table 7 Occupied Bandwidth  
Results**

Frequency		Bandwidth	Limit	Pass/Fail
IEEE 802.11b	Channel 1: 2412 MHz	11.02MHz	> 500 kHz	Pass
	Channel 6: 2432 MHz	11.01MHz	> 500 kHz	Pass
	Channel 11: 2462 MHz	11.02MHz	> 500 kHz	Pass
IEEE 802.11g	Channel 1: 2412 MHz	16.44MHz	> 500 kHz	Pass
	Channel 6: 2432 MHz	16.42MHz	> 500 kHz	Pass
	Channel 11: 2462 MHz	16.44MHz	> 500 kHz	Pass
IEEE 802.11n HT20	Channel 1: 2412 MHz	17.59 MHz	> 500 kHz	Pass
	Channel 6: 2432 MHz	17.61 MHz	> 500 kHz	Pass
	Channel 11: 2462 MHz	17.56 MHz	> 500 kHz	Pass
IEEE 802.11n HT40	Channel 3: 2422 MHz	35.35MHz	> 500 kHz	Pass
	Channel 6: 2437 MHz	35.11MHz	> 500 kHz	Pass
	Channel 9: 2452 MHz	35.19MHz	> 500 kHz	Pass

#### **4.4 Conducted spurious emission (FCC Part §15.247(d))**

##### **4.4.1 Limit**

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

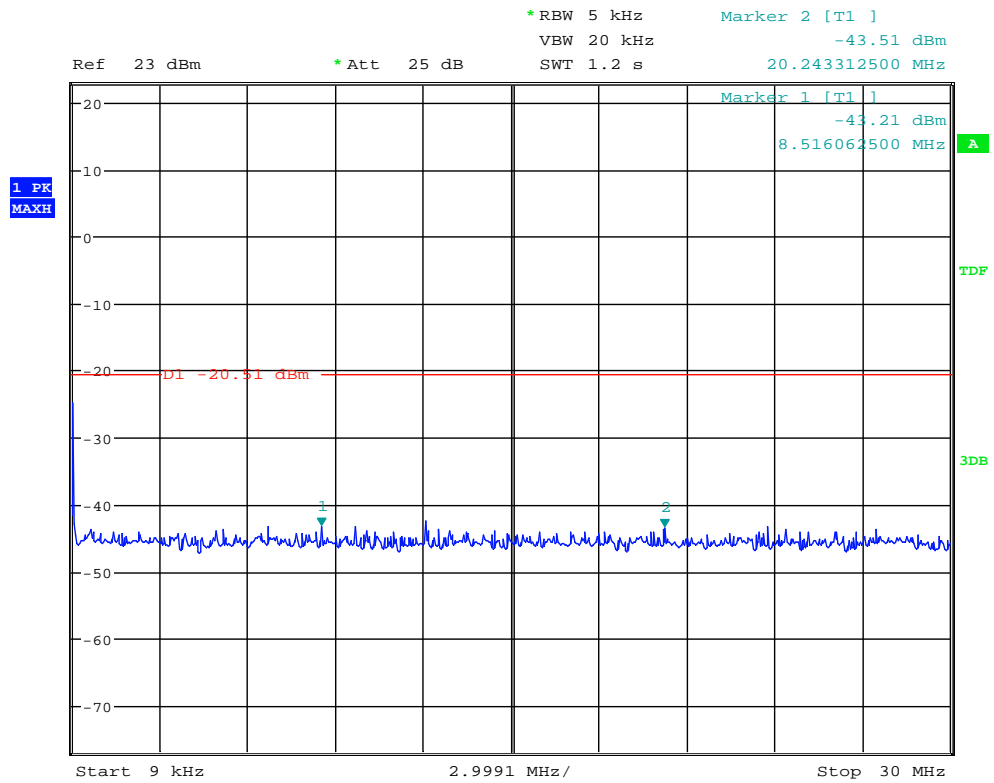
##### **4.4.2 Test Procedure**

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

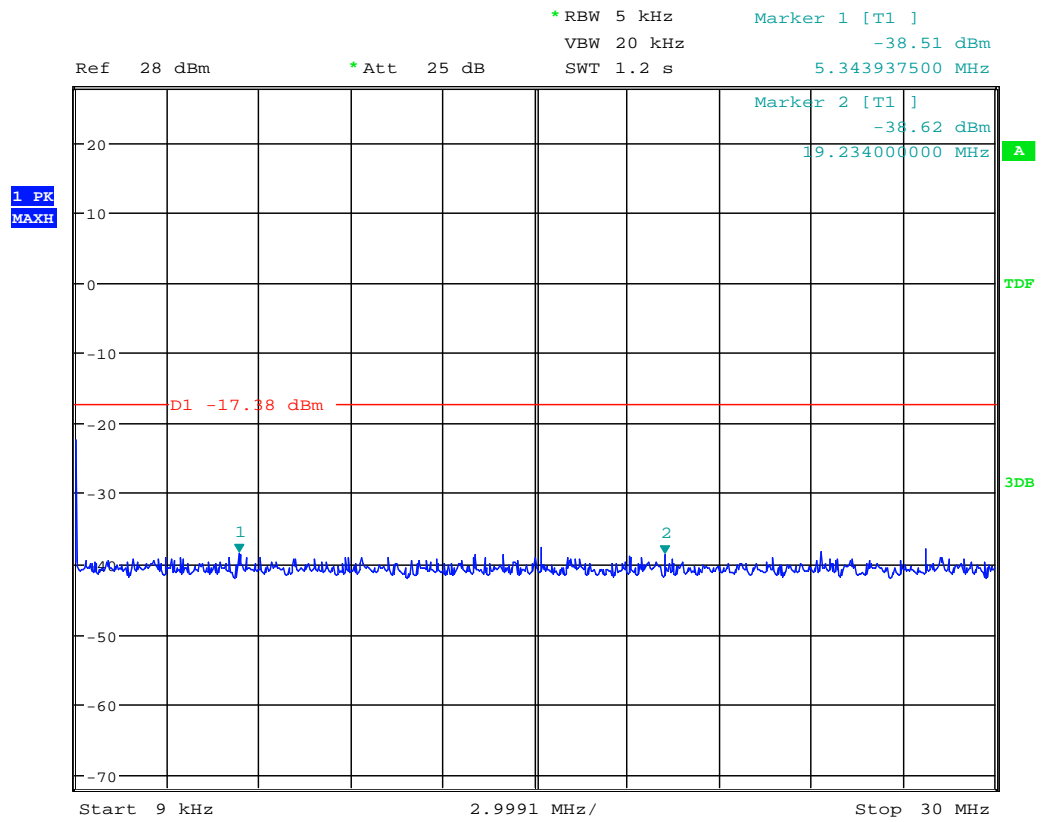
See the plots of conducted emissions plots below.

Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz

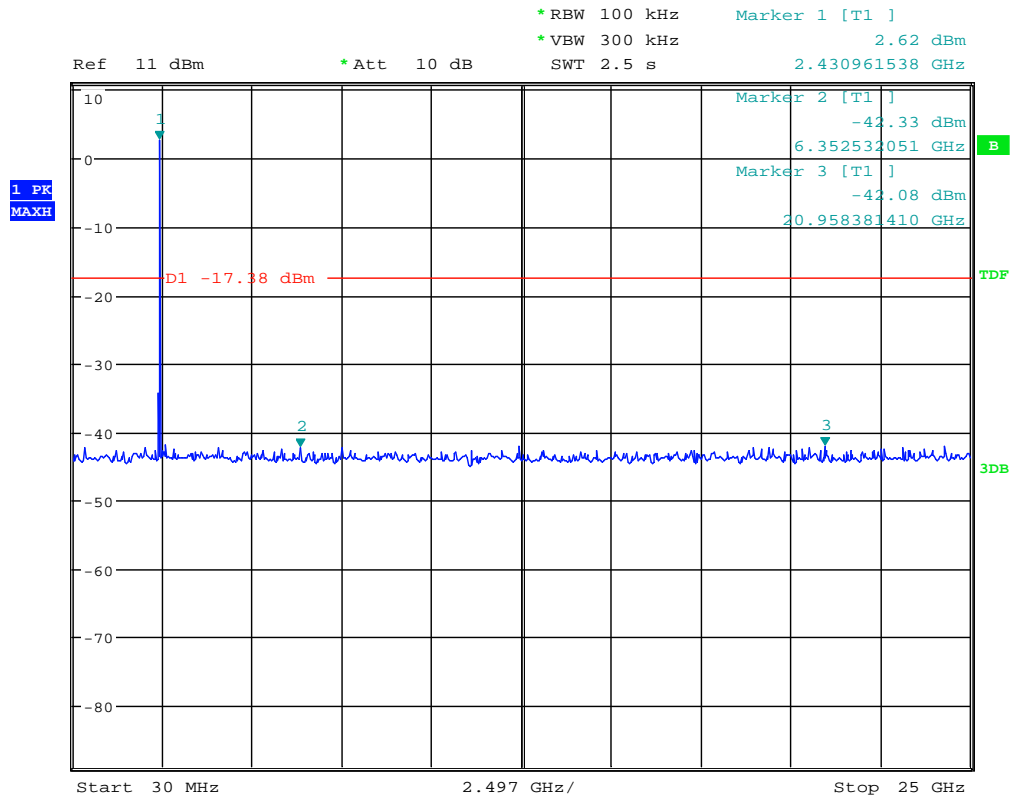


Date: 5.JUN.2013 14:06:10

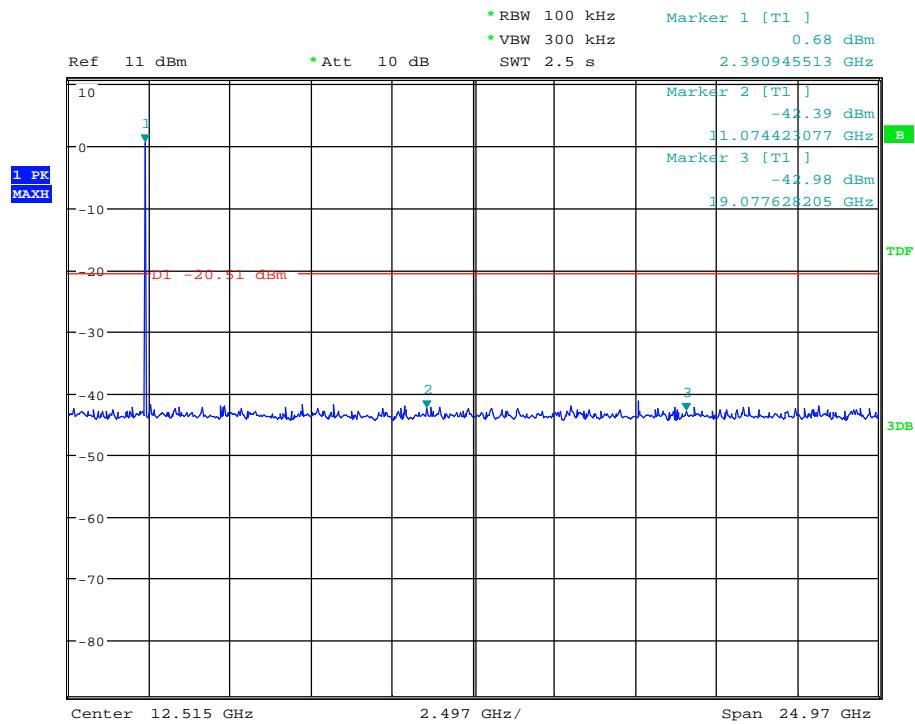


Date: 5.JUN.2013 14:39:02

# Test CH6: 2437MHz

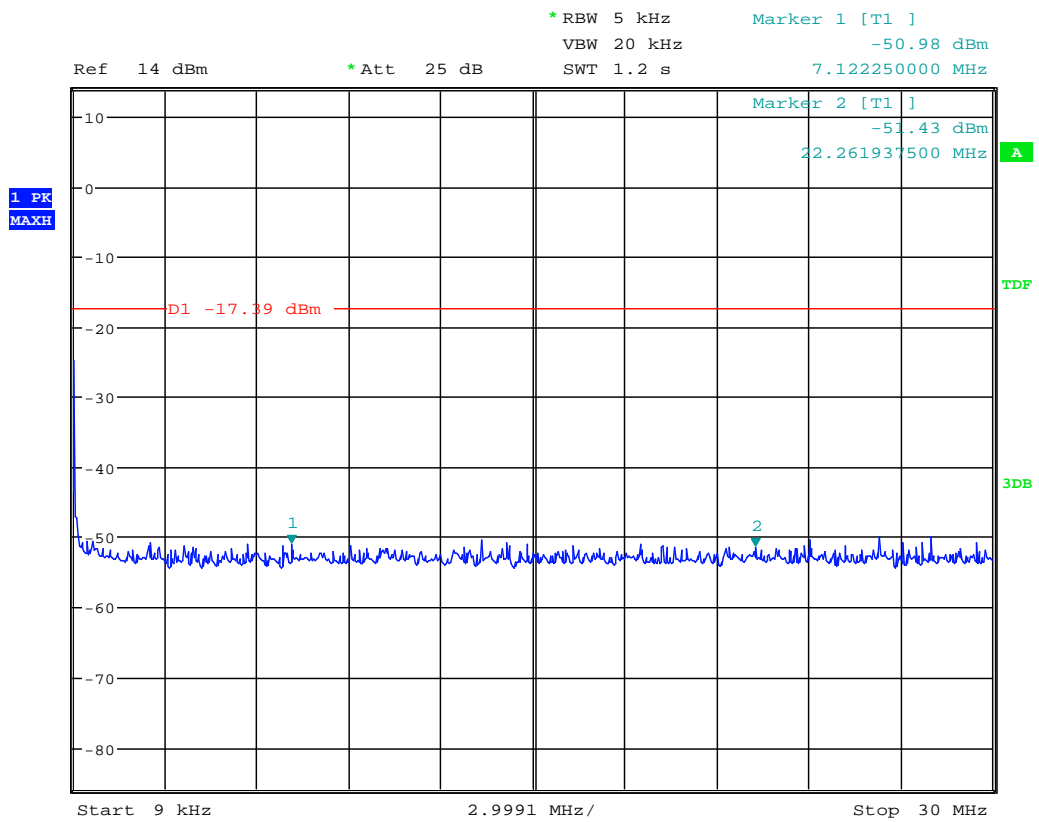


Date: 5.JUN.2013 14:37:52

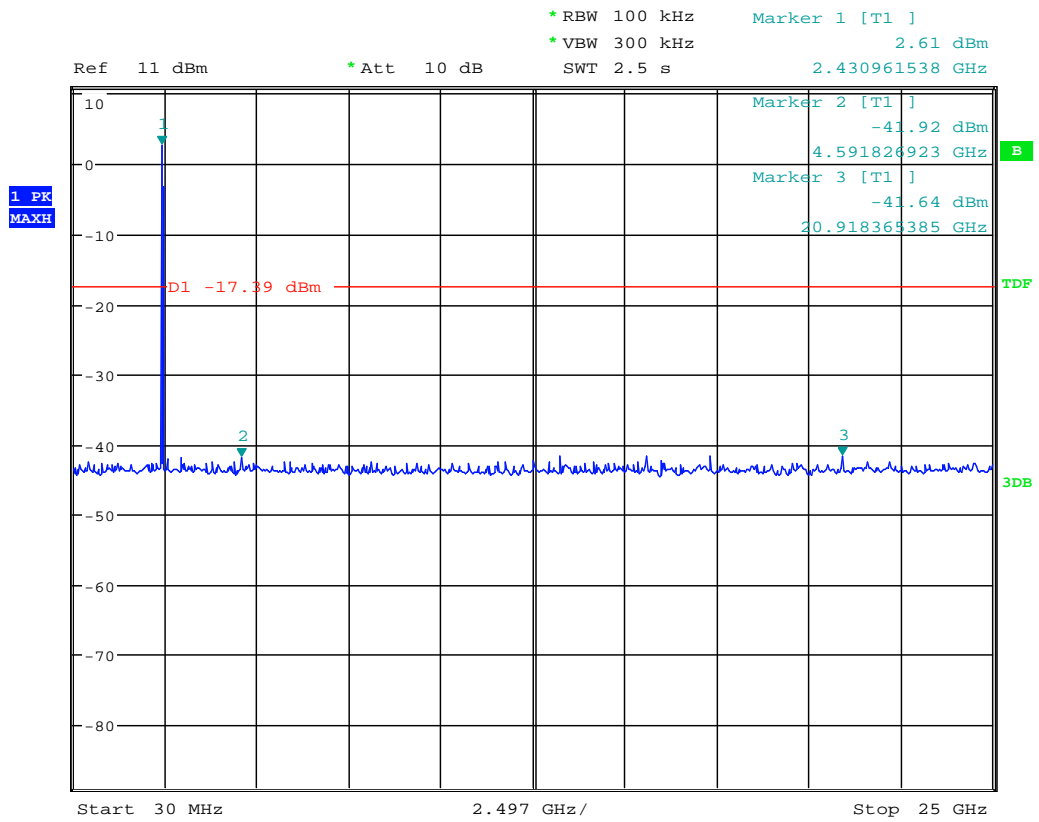


Date: 5.JUN.2013 14:04:55

Test CH11: 2462MHz



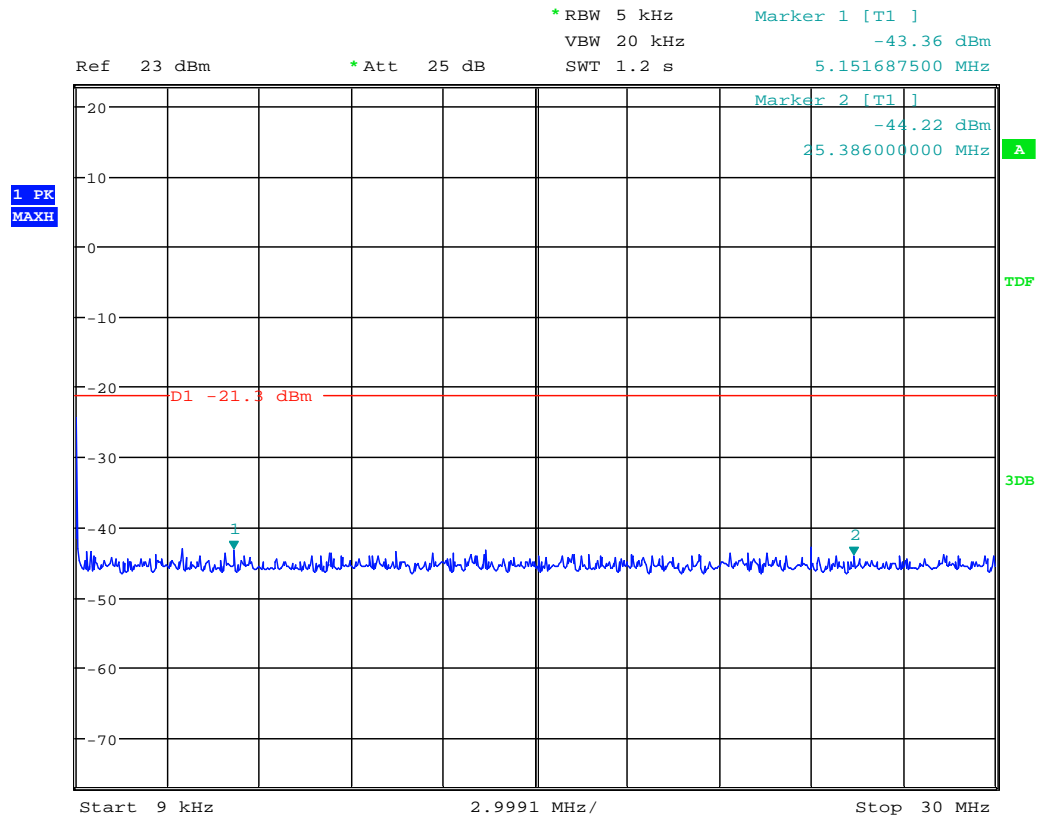
Date: 5.JUN.2013 15:01:24



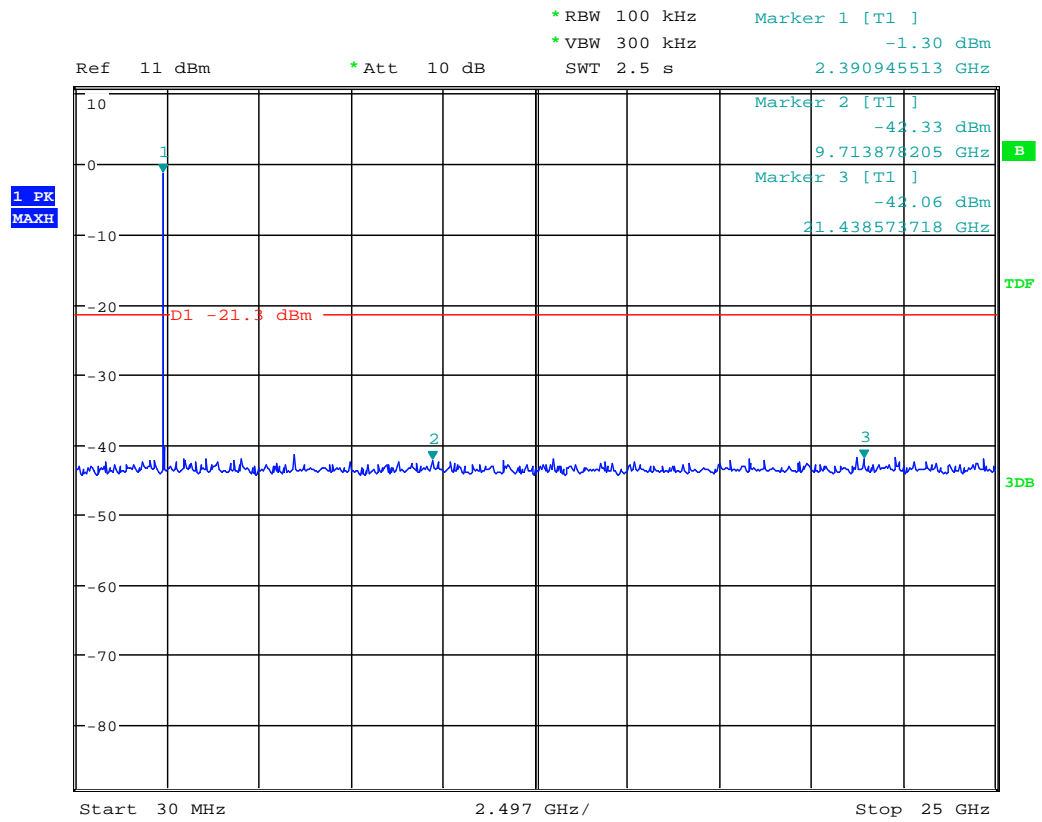
Date: 5.JUN.2013 15:00:04



Test Mode: IEEE 802.11g TX Test CH1: 2412MHz

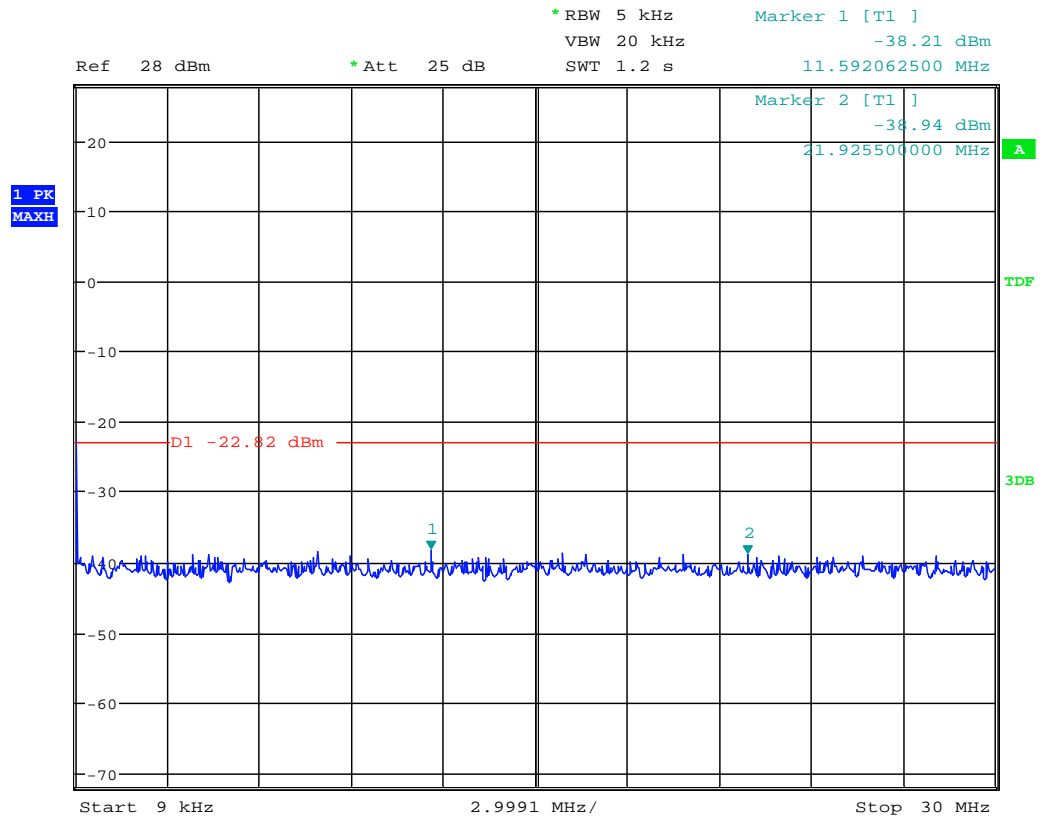


Date: 5.JUN.2013 14:10:43

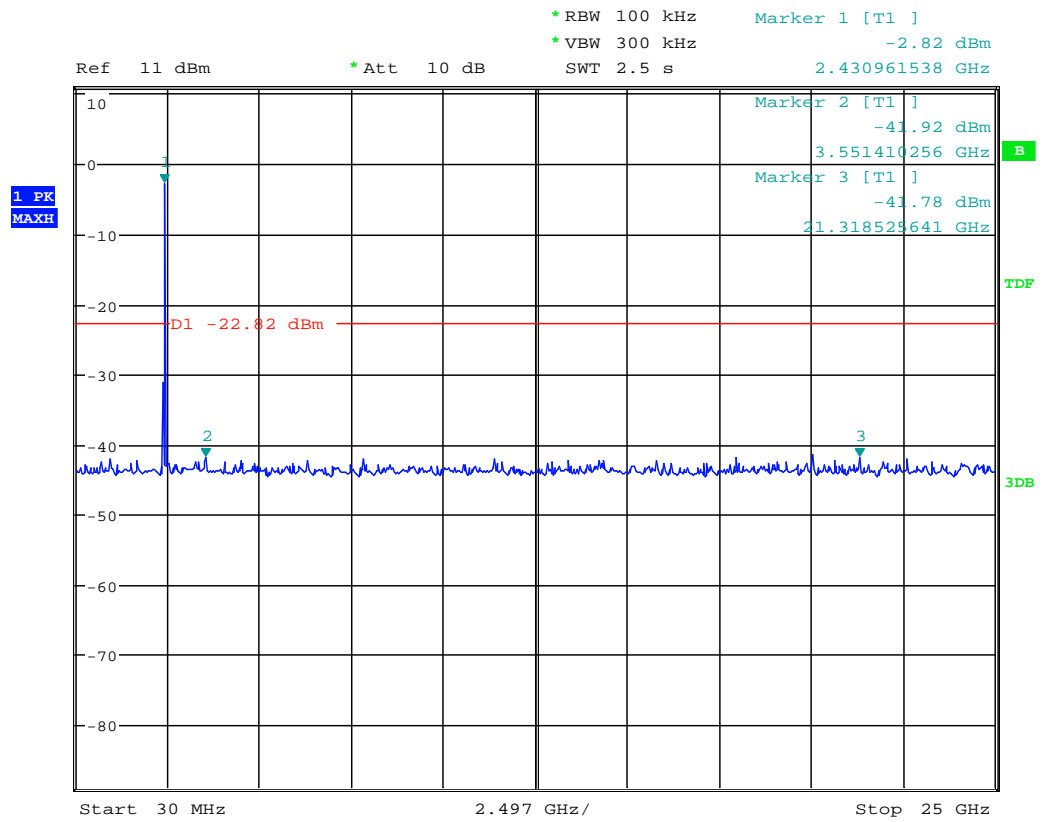


Date: 5.JUN.2013 14:09:20

Test CH6: 2437MHz

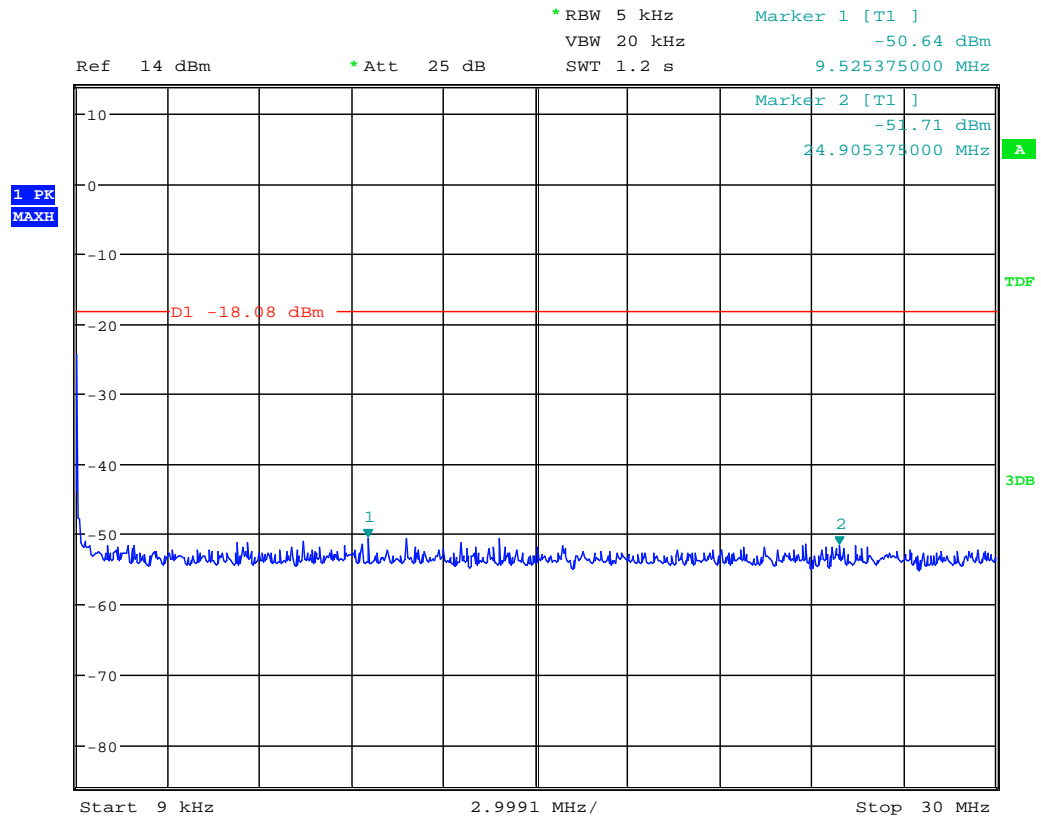


Date: 5.JUN.2013 14:42:00

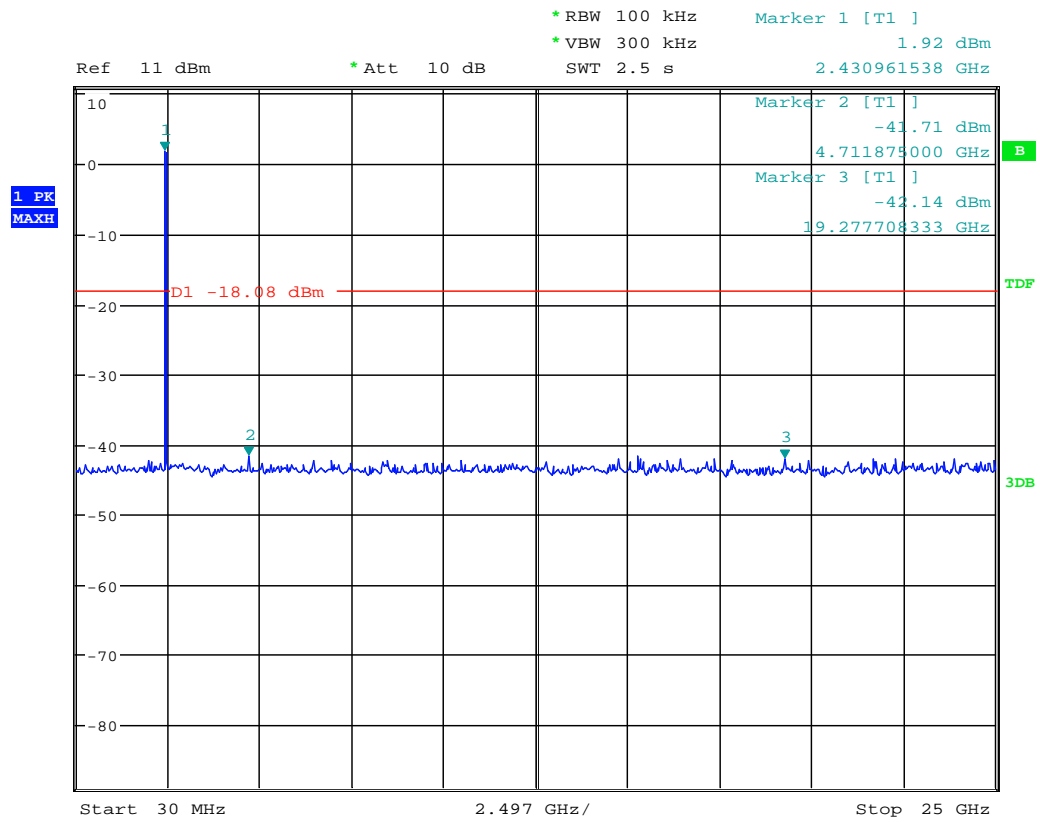


Date: 5.JUN.2013 14:41:15

Test CH11: 2462MHz



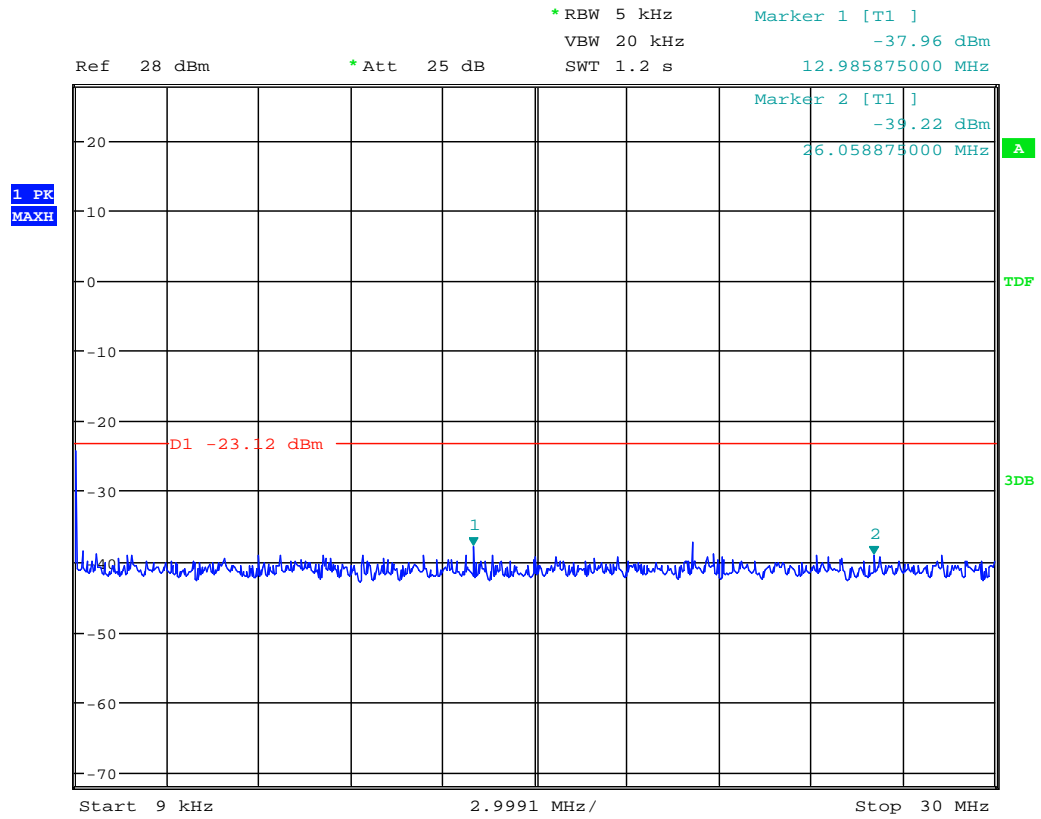
Date: 5.JUN.2013 15:09:18



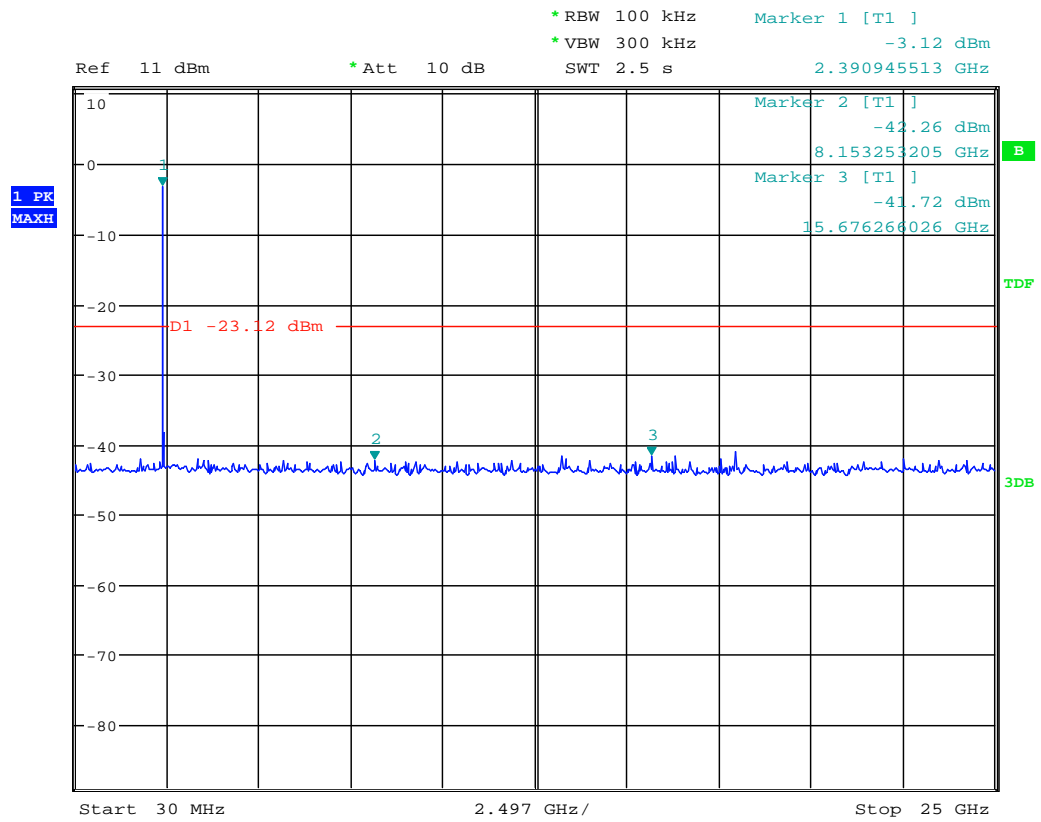
Date: 5.JUN.2013 15:07:42

Test Mode: IEEE 802.11n HT20 TX

Test CH1: 2412MHz



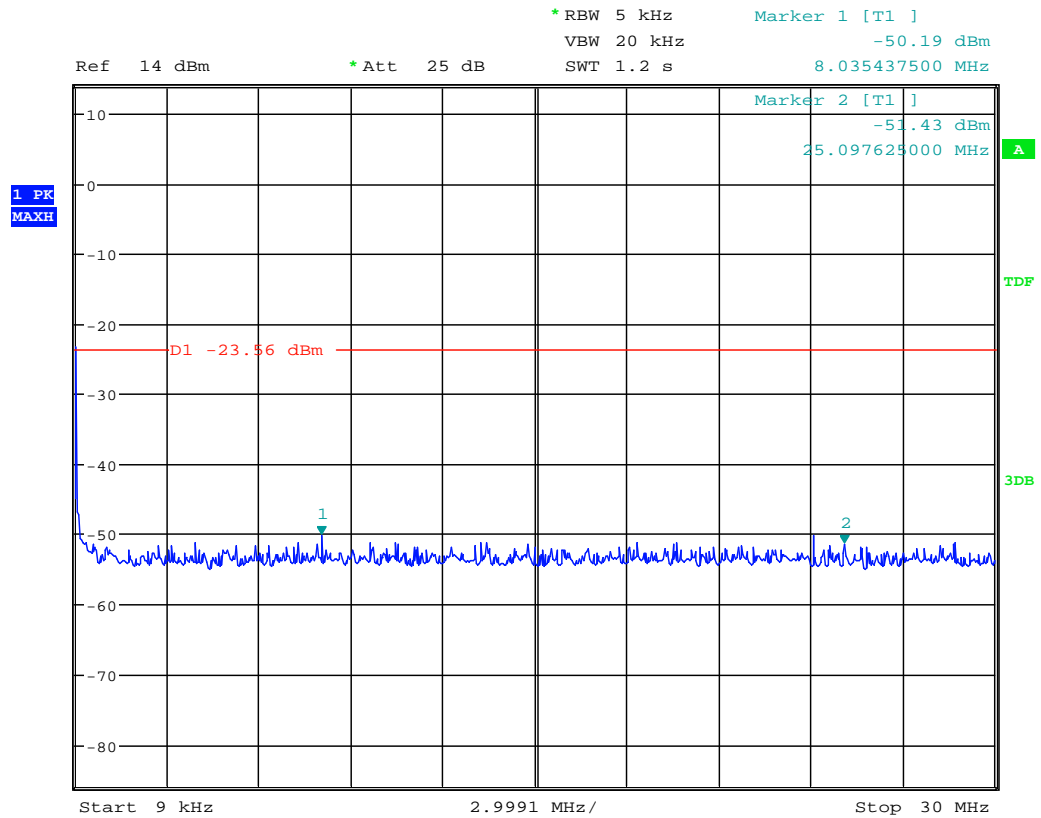
Date: 5.JUN.2013 14:24:34



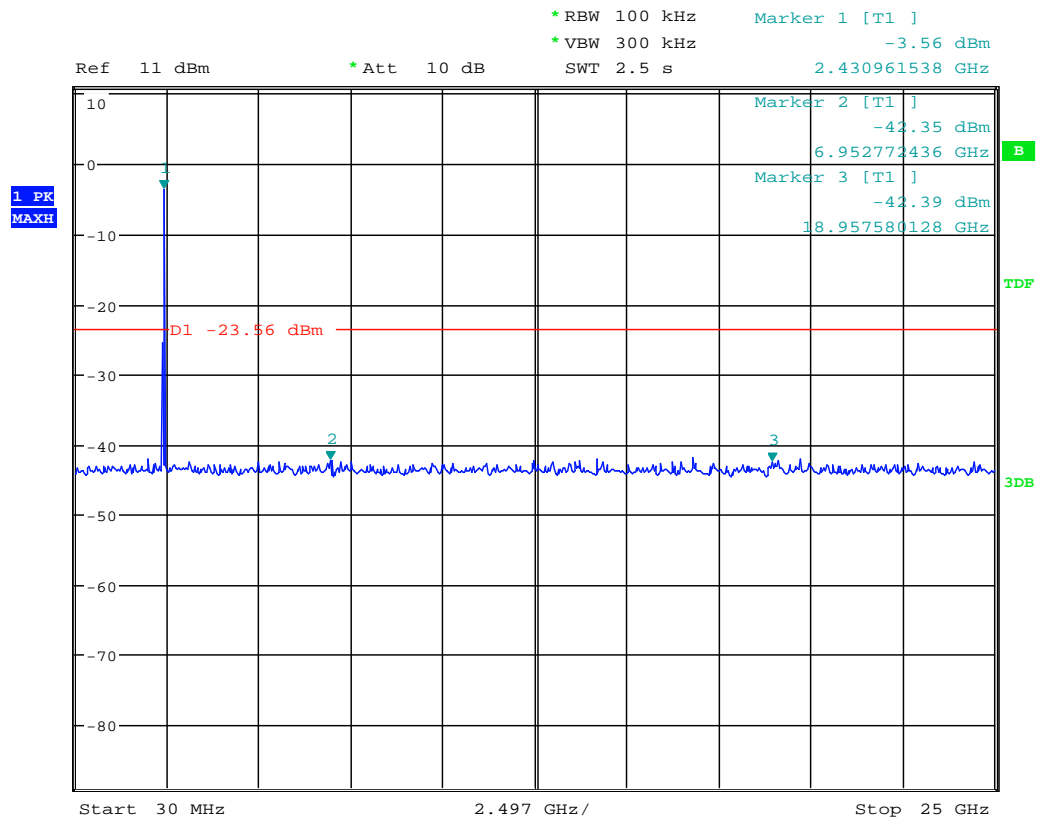
Date: 5.JUN.2013 14:23:54



# Test CH6: 2437MHz

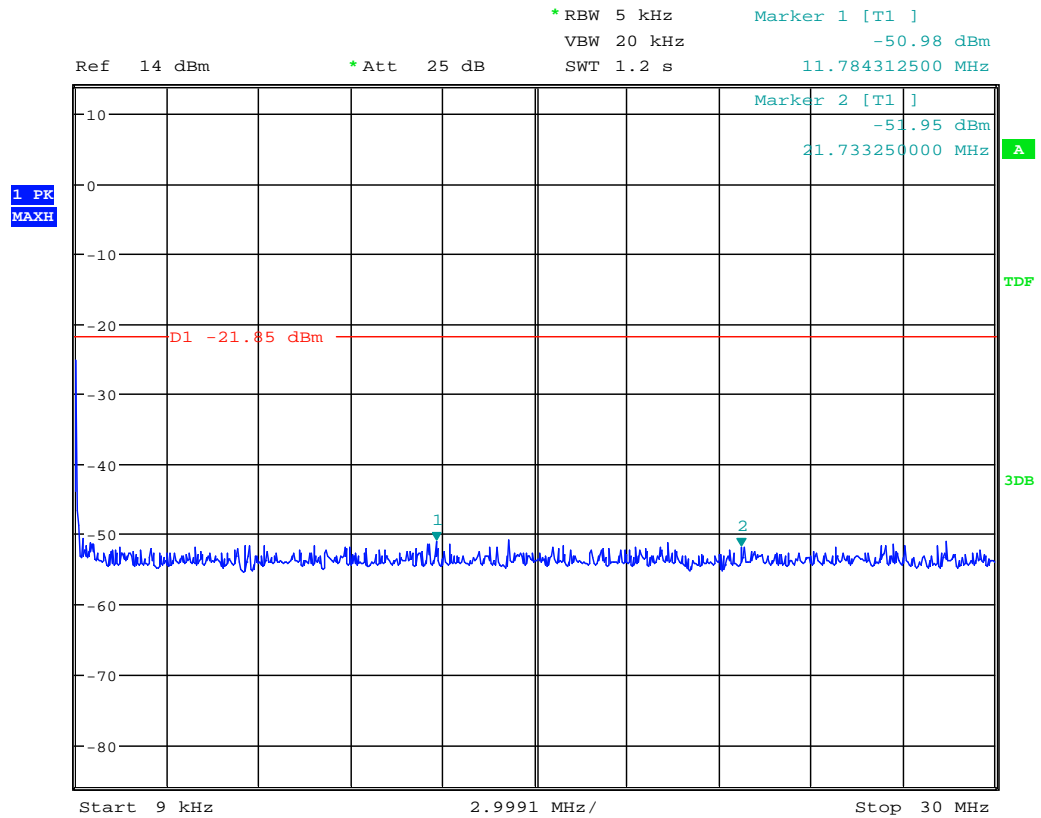


Date: 5.JUN.2013 14:52:46

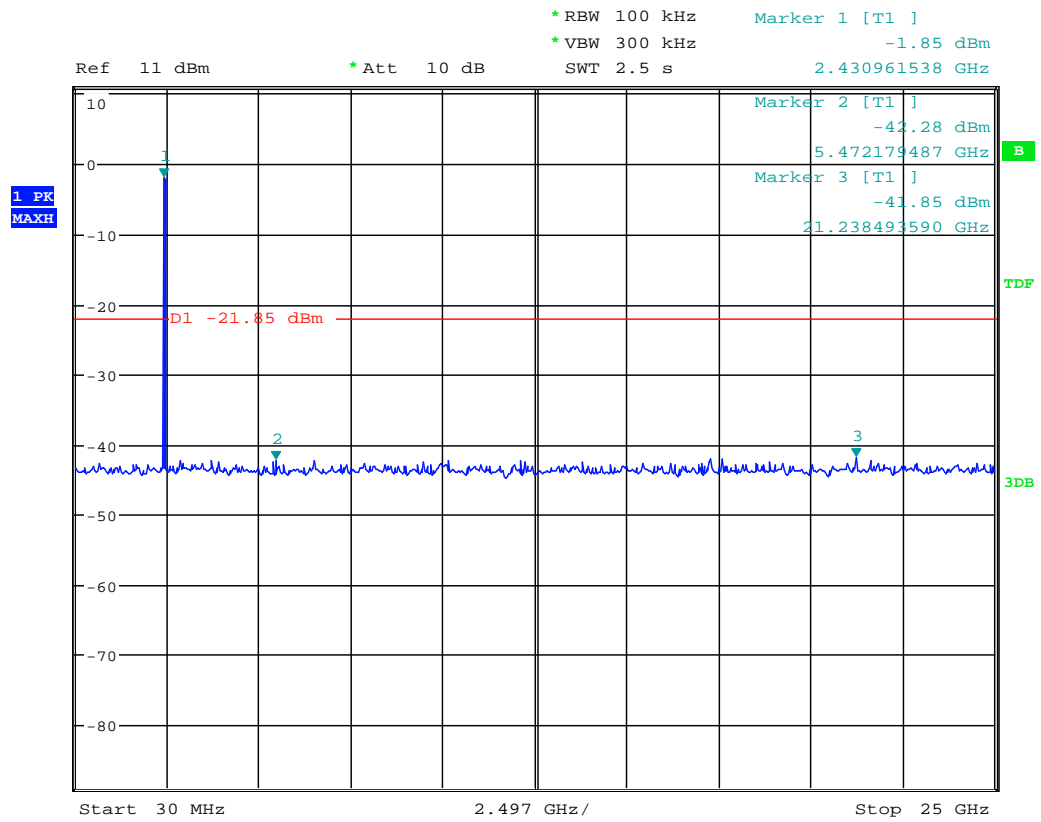


Date: 5.JUN.2013 14:50:11

Test CH11: 2462MHz



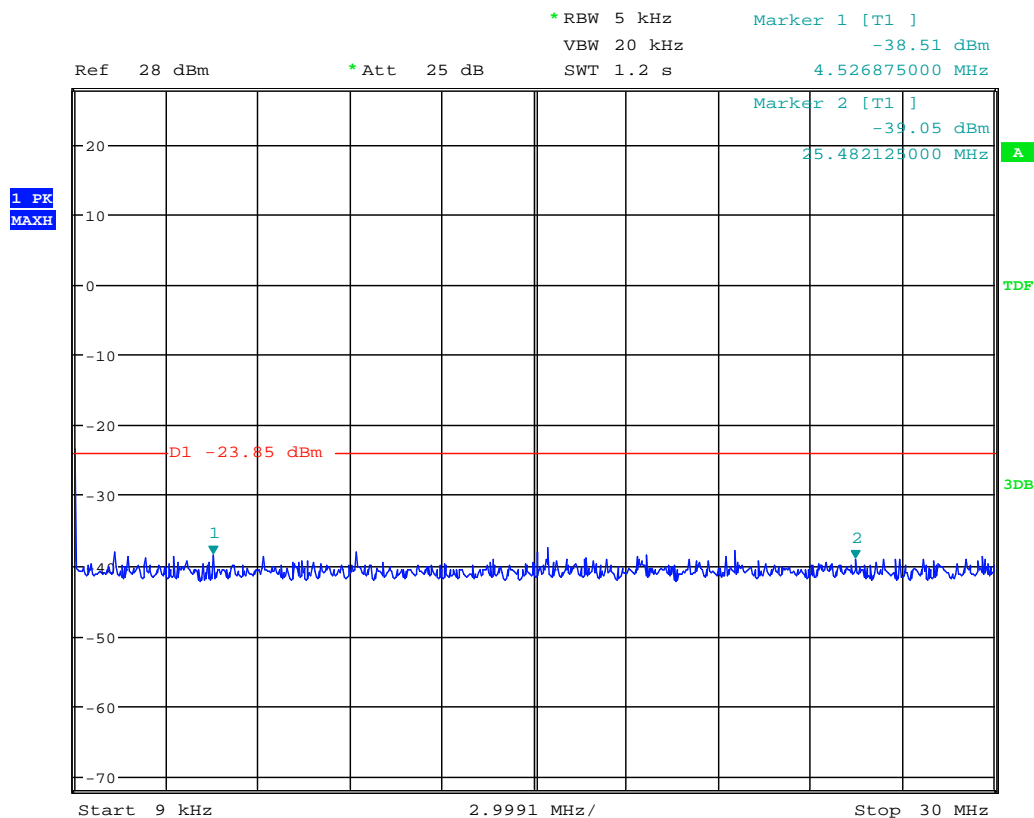
Date: 5.JUN.2013 15:12:33



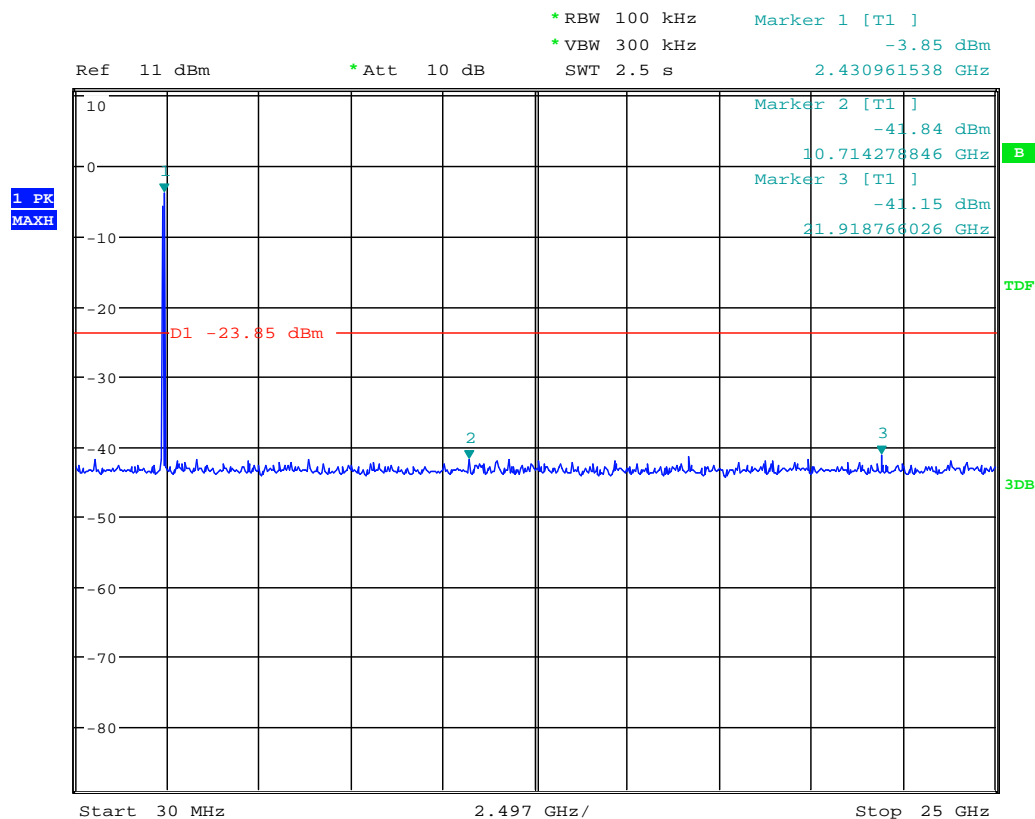
Date: 5.JUN.2013 15:11:54

Test Mode: IEEE 802.11n HT 40TX

Test CH3: 2422 MHz

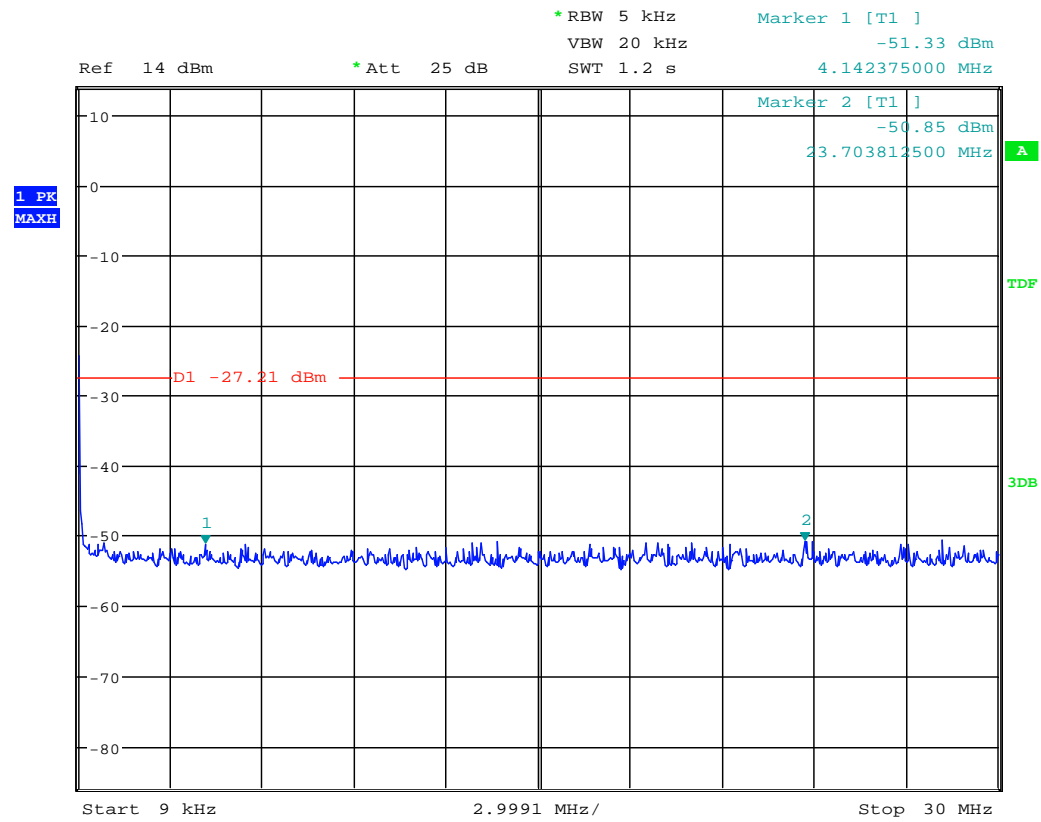


Date: 5.JUN.2013 14:21:08

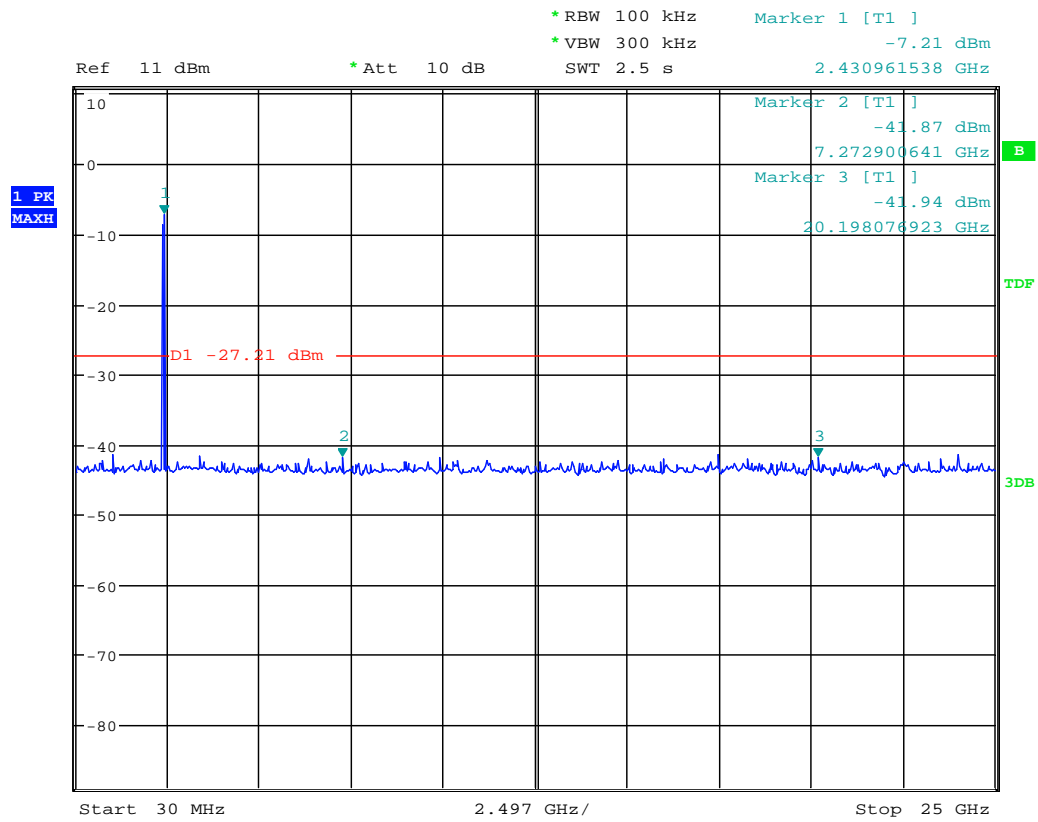


Date: 5.JUN.2013 14:20:15

Date: 5.JUN.2013 14:56:39



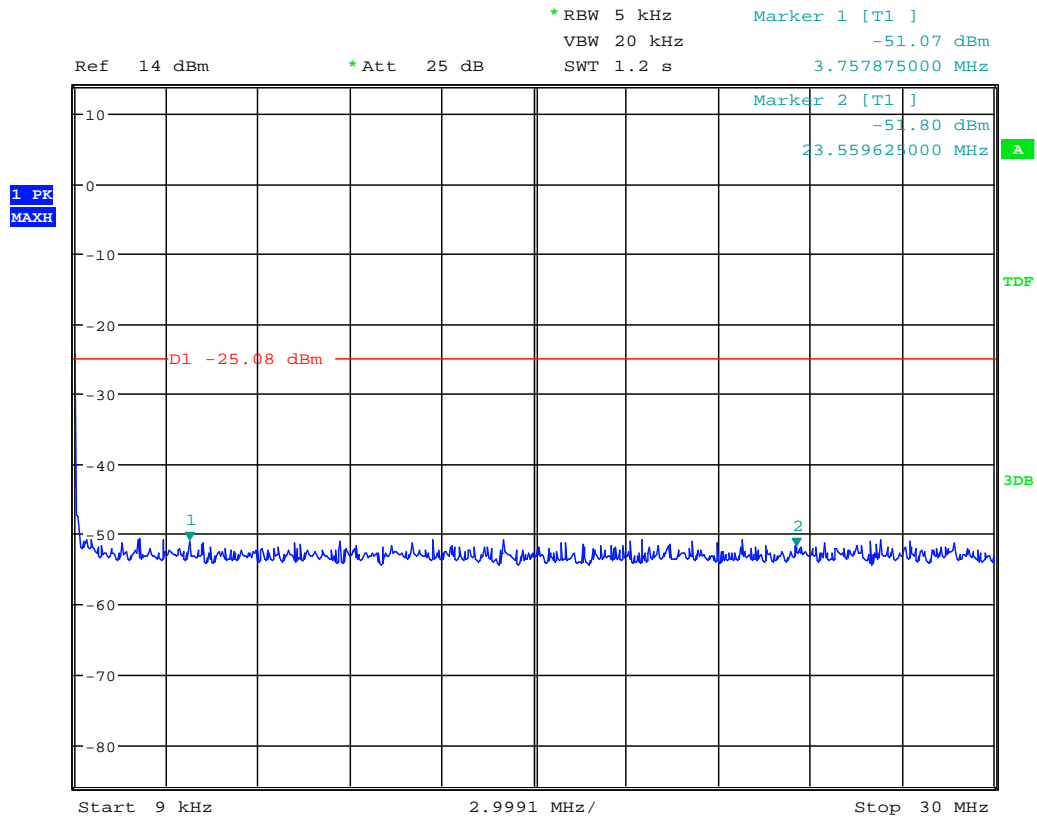
Date: 5.JUN.2013 14:56:39



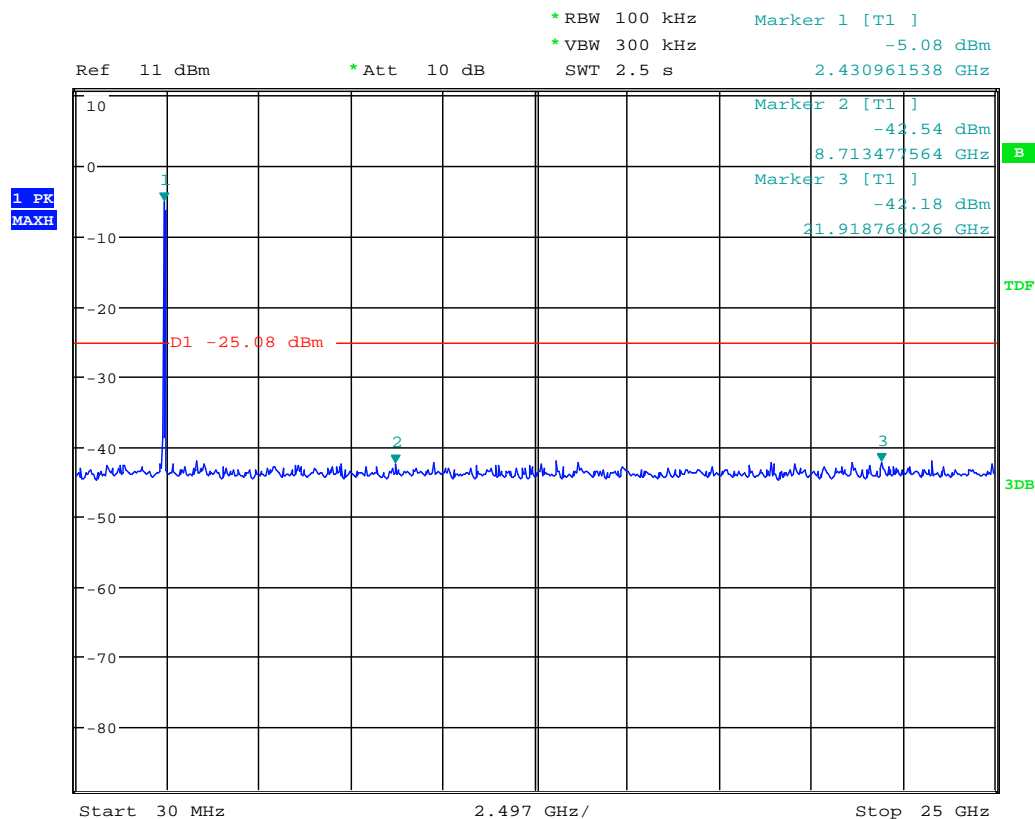
Date: 5.JUN.2013 14:55:45



# Test CH9: 2452 MHz



Date: 5.JUN.2013 15:16:31



Date: 5.JUN.2013 15:15:17

#### 4.5 Radiated Spurious Emissions: (FCC Part §15.247(d))

Radiated emissions that fall in the restricted bands must comply with the general emissions limits in 15.209(a).

The emissions were measured using the following resolution bandwidths:

Frequency Range	Resolution Bandwidth	Video Bandwidth
30MHz-1000 MHz	120kHz	>30 kHz
>1000 MHz	1 MHz	<30 Hz

Harmonic and Spurious emissions that were identified as coming from the EUT were checked in Peak and in Average Mode. The high frequency, which started from 18 to 26.5GHz, was pre-scan and the test result which was 20dB lower than the limit was not reported.

Peak measurements and average measurements are made. All emissions were determined to have a peak-to-average ratio of less than 20 dB.

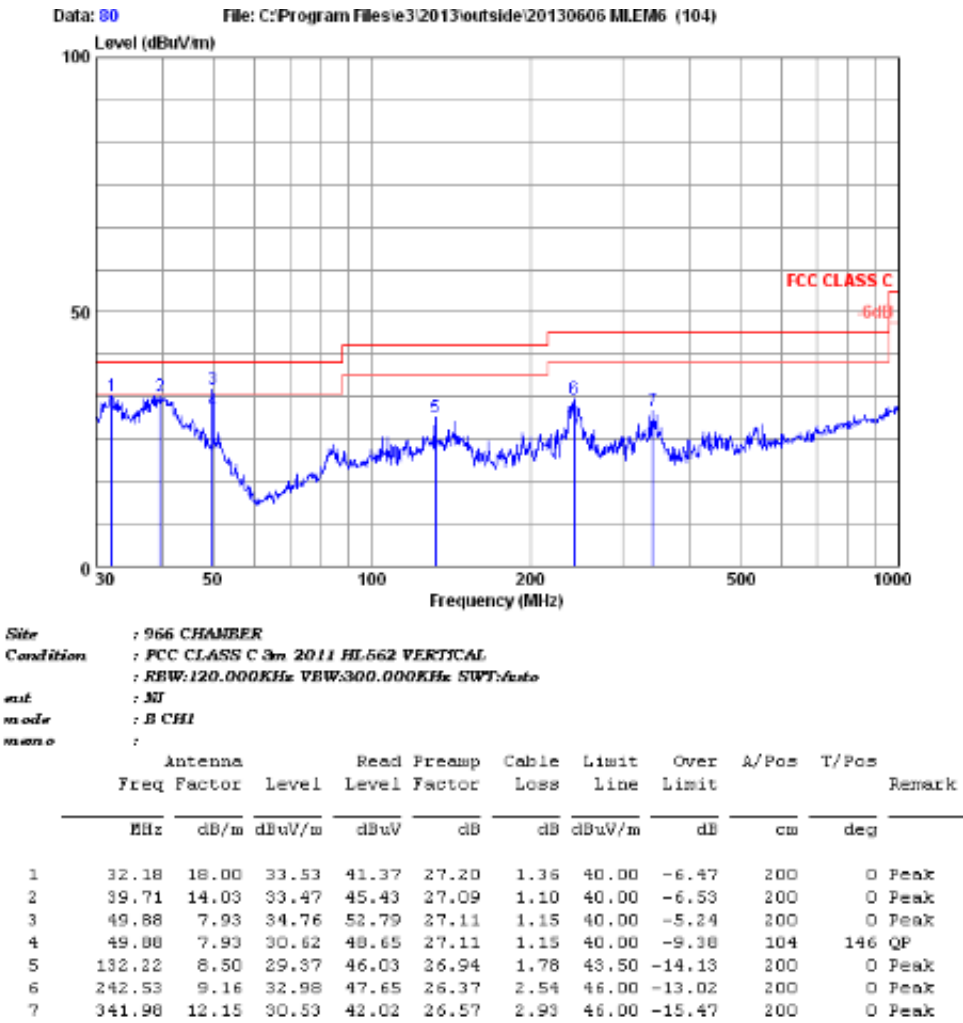
##### 4.5.1 Test Procedure

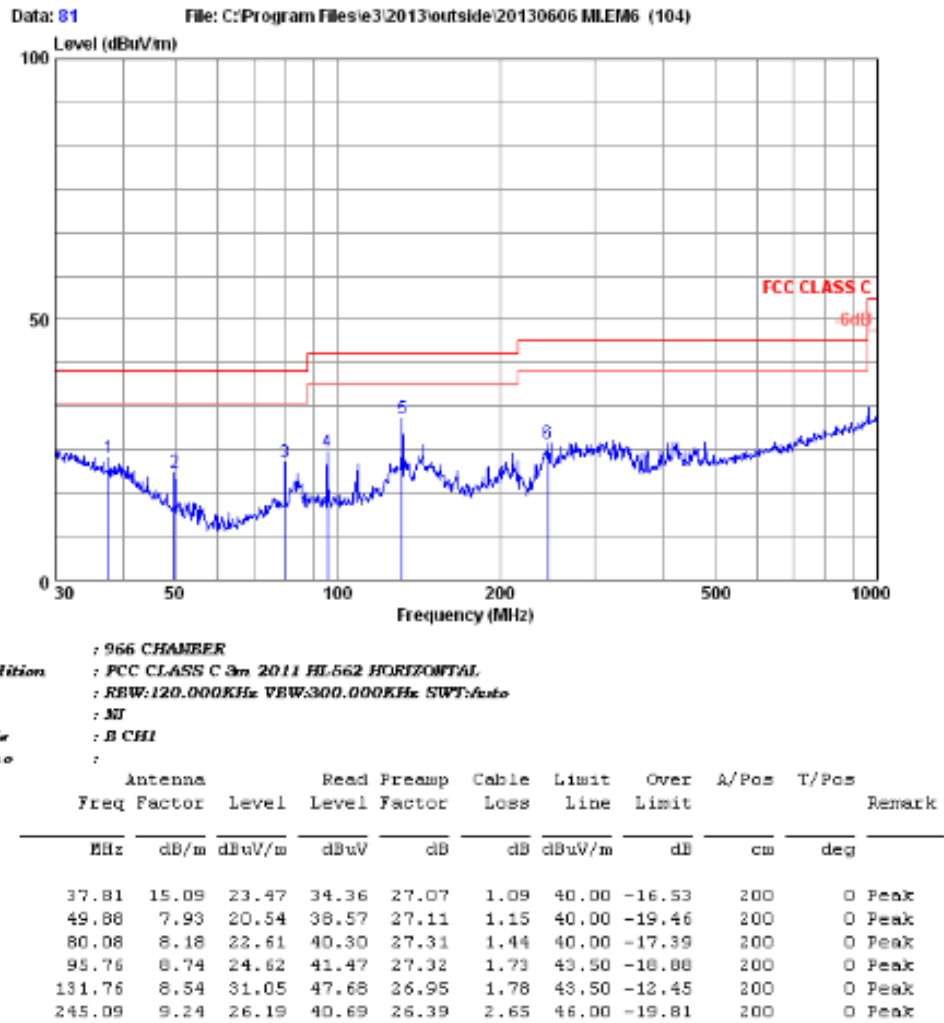
The EUT was placed on motorized turntable for radiated testing on a 3-meter open field test site. The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. Receiving antennas were mounted on an antenna mast to determine the height of maximum emissions. The height of the antenna was varied between 1 and 4 meters. The peripherals were placed on the table in accordance with ANSI C63.10-2009. Cables were varied in position to produce maximum emissions. Both the horizontal and vertical field components were measured.

These data are supplied in the following tables.

Table 8: Radiated Emission Test Data(Below 1GHz)

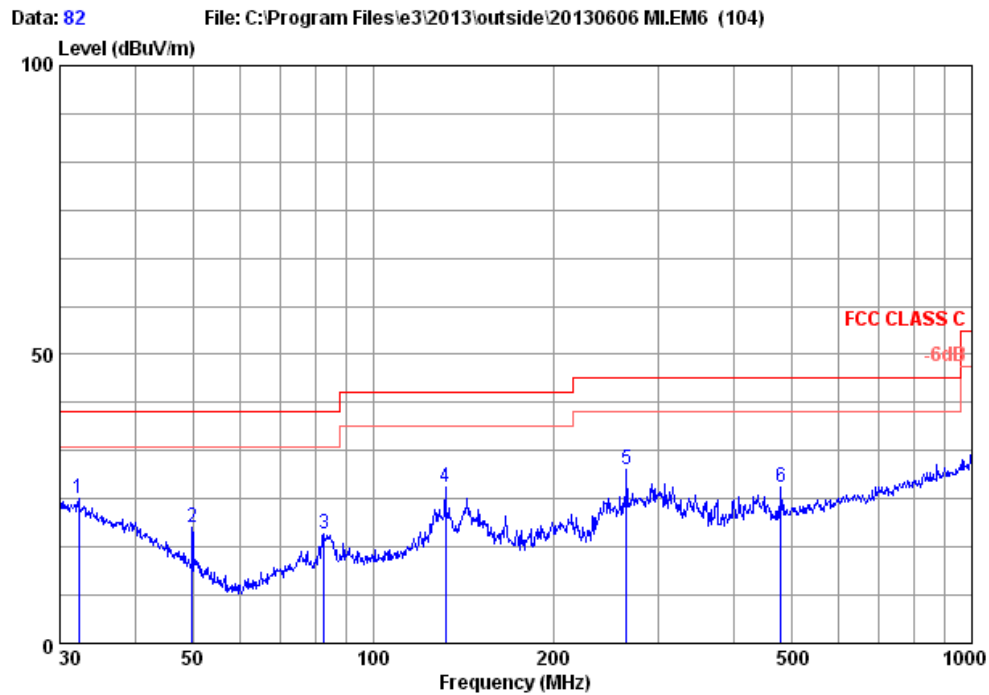
Test Mode: IEEE 802.11bTX  
Test CH1: 2412MHz





Test Mode: IEEE 802.11bTX

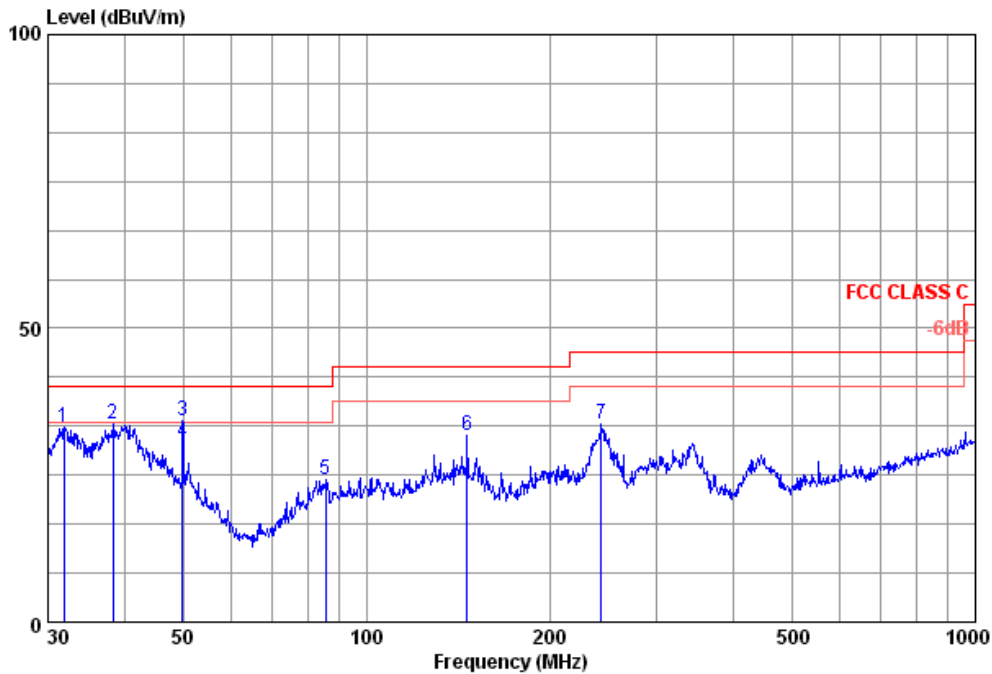
Test CH6: 2437MHz



Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 HORIZONTAL  
RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ant : MI  
mode : B CH6  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBUV/m	dBuV	dB	dB	dBUV/m	dB	cm	deg
1	32.29	17.92	25.15	33.06	27.19	1.36	40.00	-14.85	200	0 Peak
2	49.88	7.93	20.07	38.10	27.11	1.15	40.00	-19.93	200	0 Peak
3	82.94	8.38	18.83	36.35	27.47	1.57	40.00	-21.17	200	0 Peak
4	132.22	8.50	27.05	43.71	26.94	1.78	43.50	-16.45	200	0 Peak
5	264.75	9.87	30.21	44.05	26.38	2.67	46.00	-15.79	200	0 Peak
6	480.53	15.12	27.14	36.07	27.53	3.48	46.00	-18.86	200	0 Peak

Data: 83 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (104)

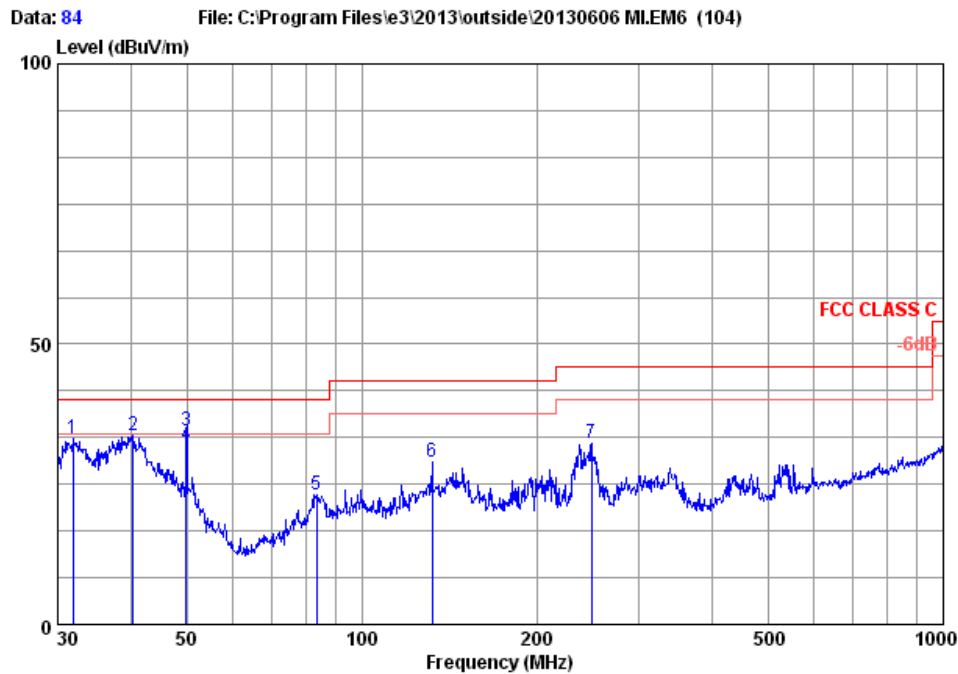


Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 VERTICAL  
: RBW:120.000KHz VBW:300.000KHz SWT:Auto  
cut : MI  
mode : E CH6  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Loss	Line	Limit			Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	cm	deg	
1	31.84	18.17	33.01	40.73	27.21	1.32	40.00	-6.99	200	0 Peak
2	38.35	14.79	33.74	44.92	27.07	1.10	40.00	-6.26	200	0 Peak
3	49.88	7.93	34.36	52.39	27.11	1.15	40.00	-5.64	200	0 Peak
4	49.88	7.93	30.62	48.65	27.11	1.15	40.00	-9.38	104	136 QP
5	85.60	8.54	24.17	41.44	27.55	1.74	40.00	-15.83	200	0 Peak
6	146.37	7.67	31.63	48.80	26.80	1.96	43.50	-11.87	200	0 Peak
7	243.38	9.20	33.65	48.25	26.38	2.58	46.00	-12.35	200	0 Peak

Test Mode: IEEE 802.11bTX

Test CH11: 2462MHz

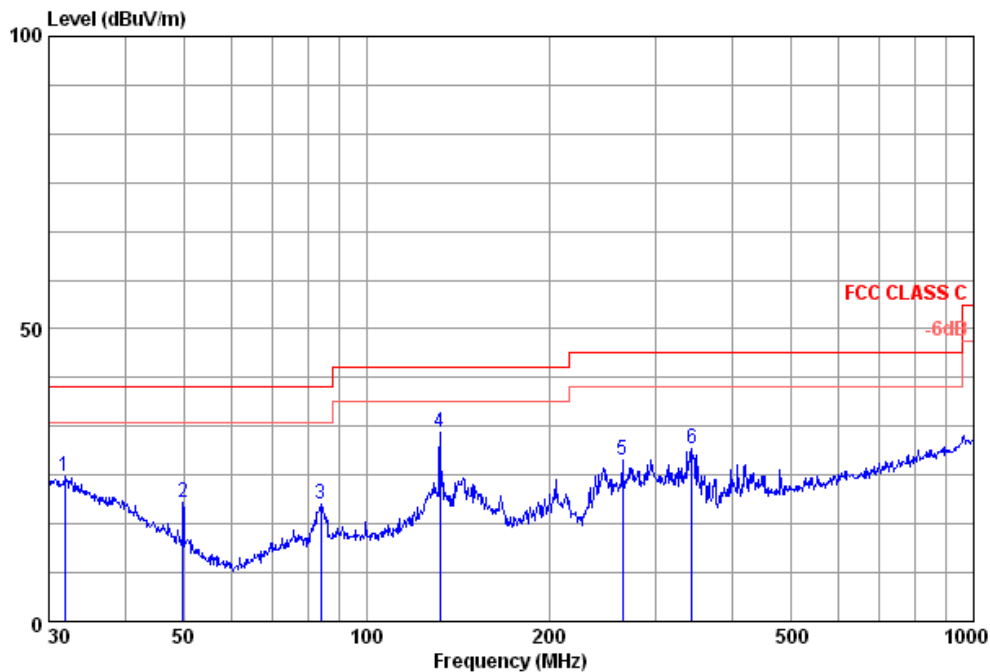


Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 VERTICAL  
RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ent : MI  
mode : E CH11  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Loss	Line	Limit			
	MHz	dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	cm	deg	
1	31.84	18.17	33.11	40.83	27.21	1.32	40.00	-6.89	200	0 Peak
2	40.42	13.62	33.72	46.11	27.11	1.10	40.00	-6.28	200	0 Peak
3	49.88	7.93	34.48	52.51	27.11	1.15	40.00	-5.52	200	0 Peak
4	49.88	7.93	32.09	50.12	27.11	1.15	40.00	-7.91	115	152 QP
5	83.52	8.41	23.17	40.64	27.50	1.62	40.00	-16.83	200	0 Peak
6	132.22	8.50	29.04	45.70	26.94	1.78	43.50	-14.46	200	0 Peak
7	248.55	9.36	32.42	46.81	26.42	2.67	46.00	-13.58	200	0 Peak



Data: 85 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (104)

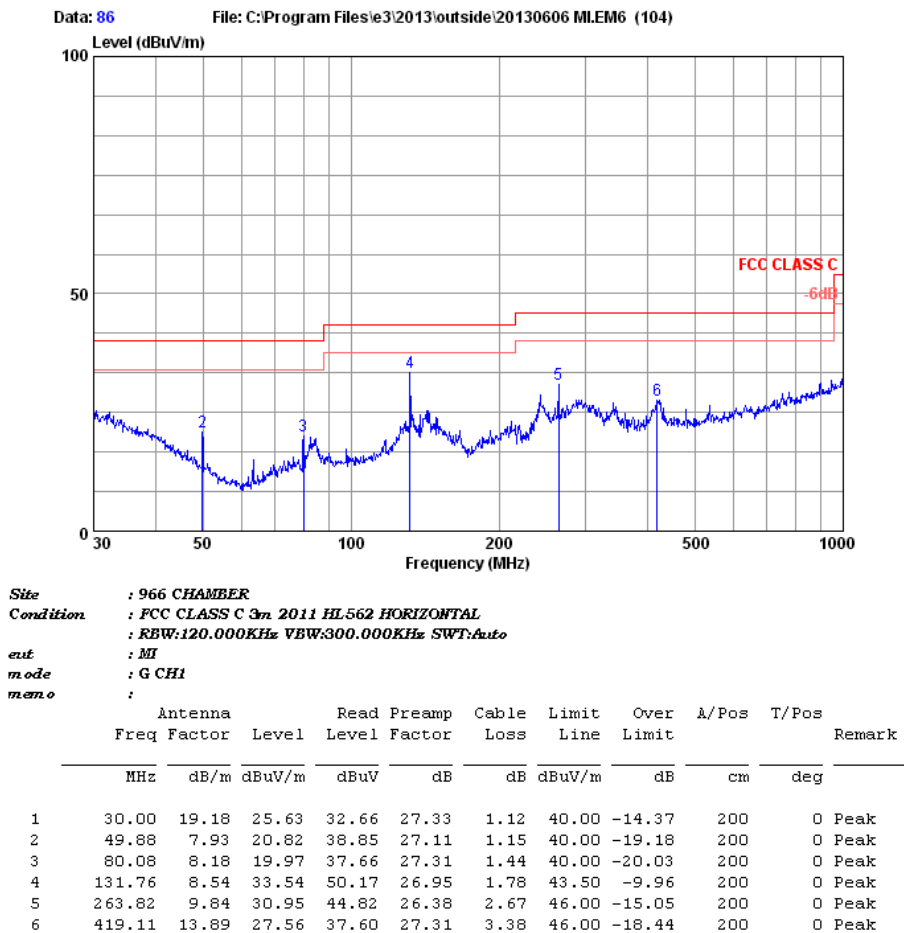


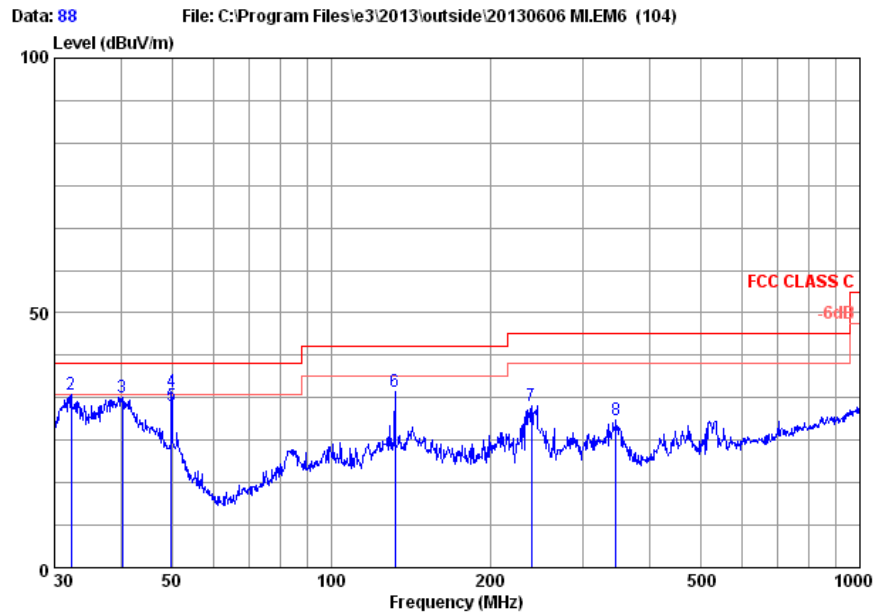
Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 HORIZONTAL  
: RBW:120.000KHz VBW:300.000KHz SWT:Auto  
cut : MI  
mode : B CH11  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	31.84	18.17	24.74	32.46	27.21	1.32	40.00	-15.26	200	0 Peak
2	49.88	7.93	20.27	38.30	27.11	1.15	40.00	-19.73	200	0 Peak
3	84.11	8.47	20.16	37.55	27.53	1.67	40.00	-19.84	200	0 Peak
4	132.22	8.50	32.23	48.89	26.94	1.78	43.50	-11.27	200	0 Peak
5	263.82	9.84	27.56	41.43	26.38	2.67	46.00	-18.44	200	0 Peak
6	343.18	12.19	29.39	40.87	26.60	2.93	46.00	-16.61	200	0 Peak

Test Mode: IEEE 802.11gTX

Test CH1: 2412MHz



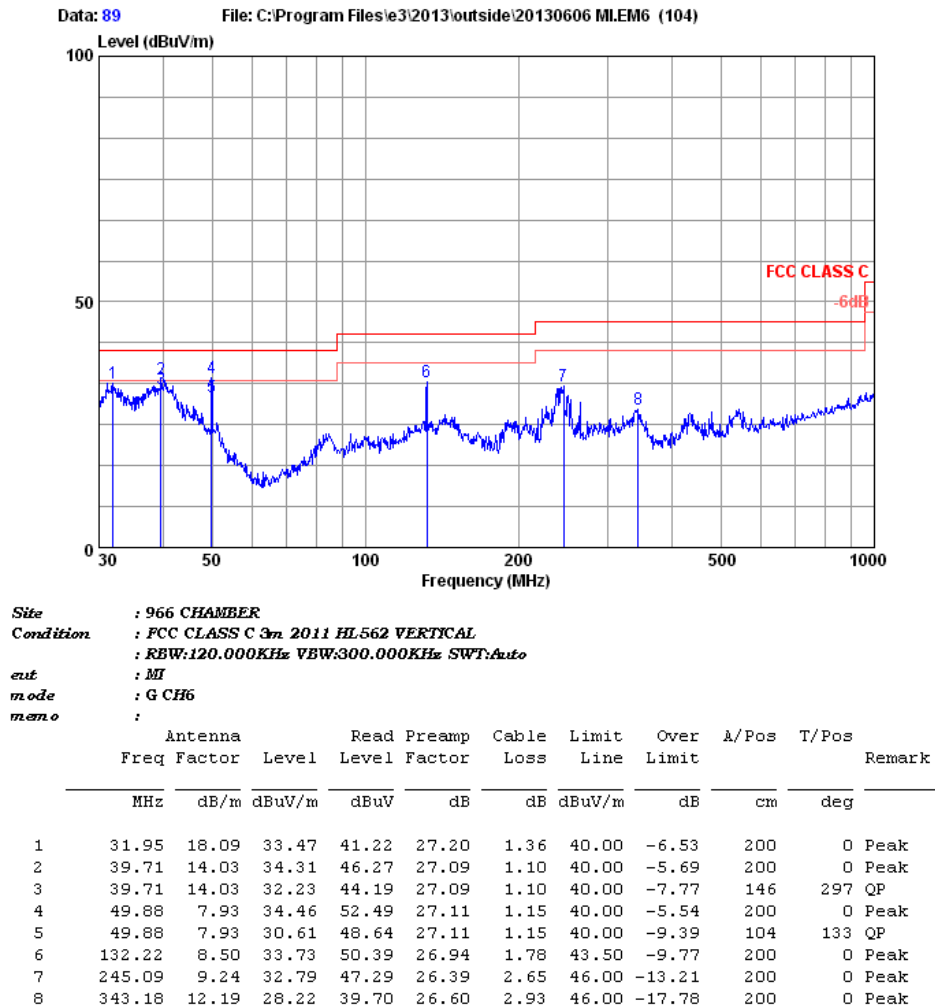


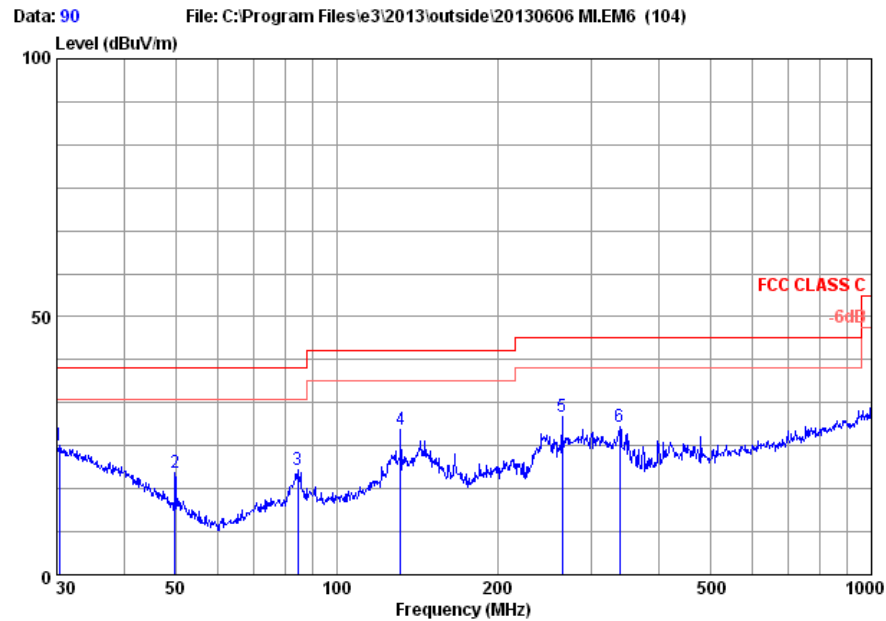
Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 VERTICAL  
: RBW:120.000KHz VBW:300.000KHz SWT:auto  
ant : MI  
mode : G CH1  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Loss	Line	Limit			Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	cm	deg	
1	32.29	17.92	30.24	38.15	27.19	1.36	40.00	-9.76	128	244 QP
2	32.29	17.92	34.04	41.95	27.19	1.36	40.00	-5.96	200	0 Peak
3	40.28	13.73	33.56	45.83	27.10	1.10	40.00	-6.44	200	0 Peak
4	49.88	7.93	34.51	52.54	27.11	1.15	40.00	-5.49	200	0 Peak
5	49.88	7.93	31.64	49.67	27.11	1.15	40.00	-8.36	104	56 QP
6	132.22	8.50	34.53	51.19	26.94	1.78	43.50	-8.97	200	0 Peak
7	239.15	9.04	31.81	46.62	26.34	2.49	46.00	-14.19	200	0 Peak
8	345.60	12.28	28.83	40.29	26.67	2.93	46.00	-17.17	200	0 Peak

Test Mode: IEEE 802.11gTX

Test CH6: 2437MHz



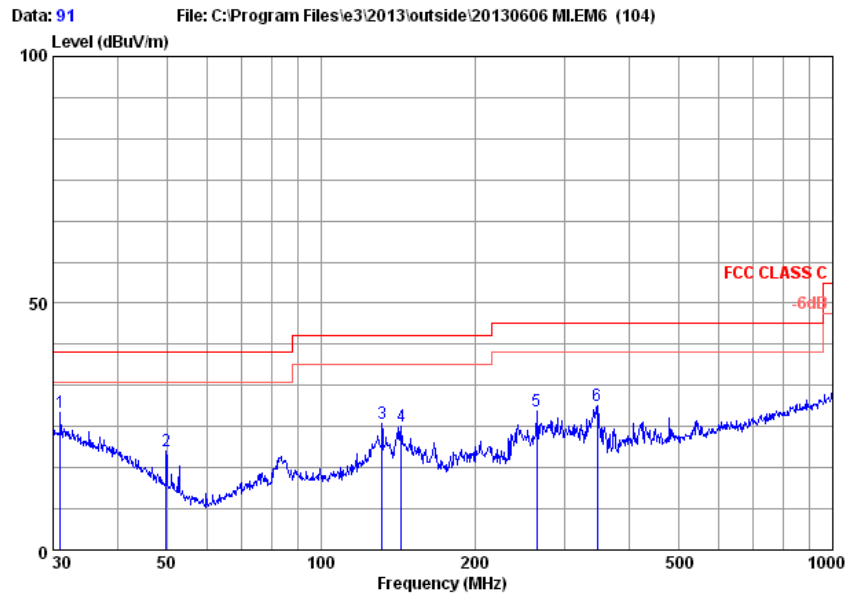


Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 HORIZONTAL  
: RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ant : MI  
mode : G CH6  
memo :

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	
1	30.32	19.03	25.19	32.36	27.30	1.10	40.00	-14.81	200 0 Peak
2	49.88	7.93	19.80	37.83	27.11	1.15	40.00	-20.20	200 0 Peak
3	84.70	8.50	20.24	37.58	27.55	1.71	40.00	-19.76	200 0 Peak
4	131.76	8.54	28.17	44.80	26.95	1.78	43.50	-15.33	200 0 Peak
5	263.82	9.84	30.77	44.64	26.38	2.67	46.00	-15.23	200 0 Peak
6	338.40	12.06	28.59	40.07	26.47	2.93	46.00	-17.41	200 0 Peak

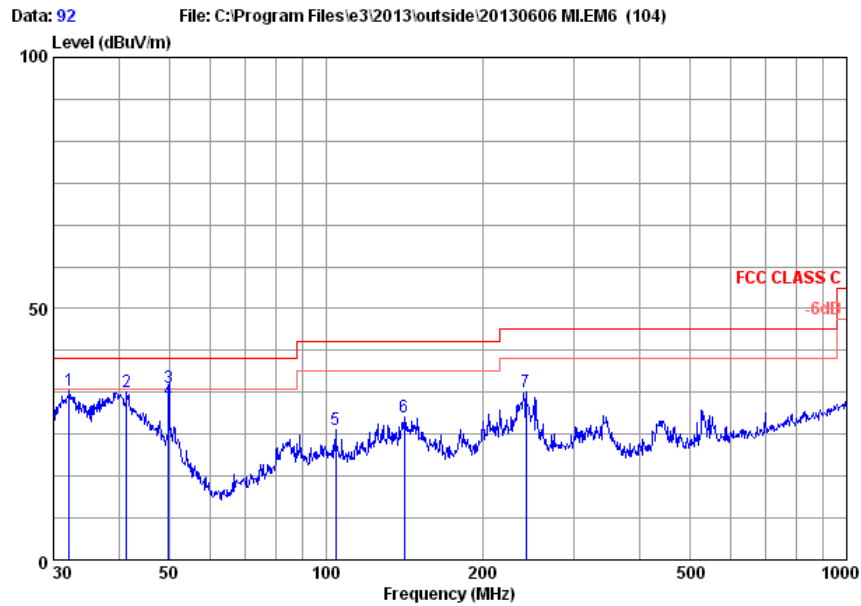
Test Mode: IEEE 802.11gTX

Test CH11: 2462MHz



Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 HORIZONTAL  
: RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ent : MI  
mode : G CH11  
memo :

	Antenna		Read	Preampl	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	30.96	18.65	27.88	35.37	27.25	1.11	40.00	-12.12	200	0 Peak
2	49.88	7.93	19.95	37.98	27.11	1.15	40.00	-20.05	200	0 Peak
3	131.76	8.54	25.61	42.24	26.95	1.78	43.50	-17.89	200	0 Peak
4	143.83	7.83	25.15	42.25	26.85	1.92	43.50	-18.35	200	0 Peak
5	263.82	9.84	28.24	42.11	26.38	2.67	46.00	-17.76	200	0 Peak
6	346.81	12.28	29.38	40.88	26.71	2.93	46.00	-16.62	200	0 Peak

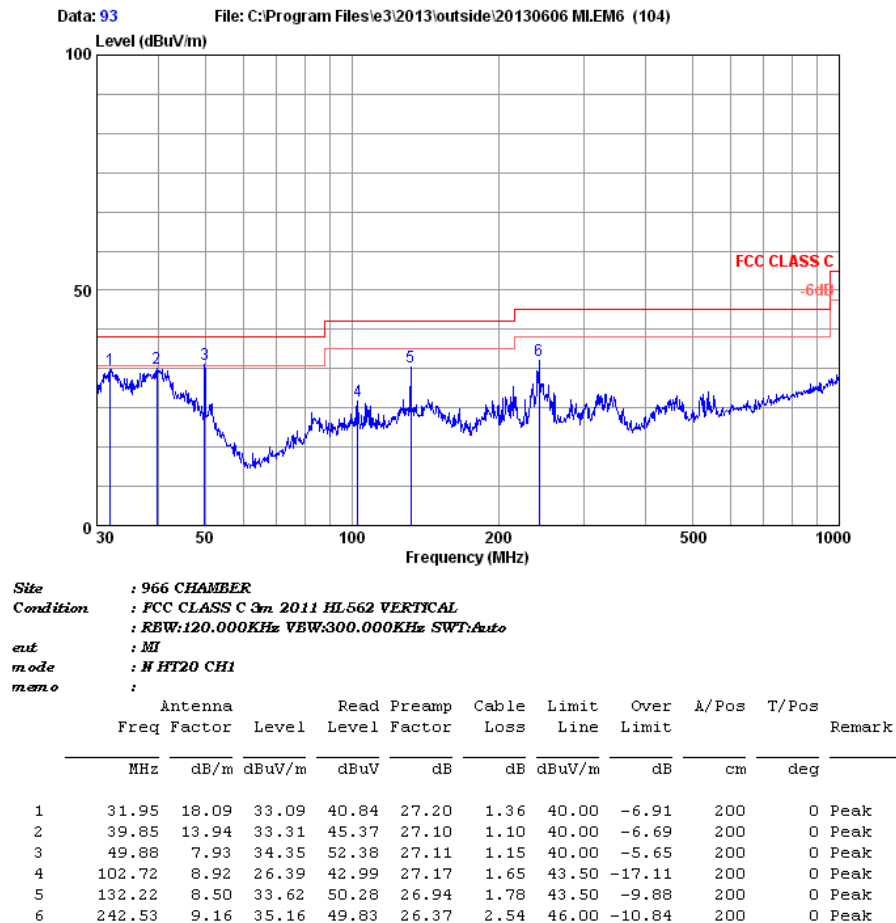


Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 VERTICAL  
: RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ant : MI  
mode : G CH11  
memo :

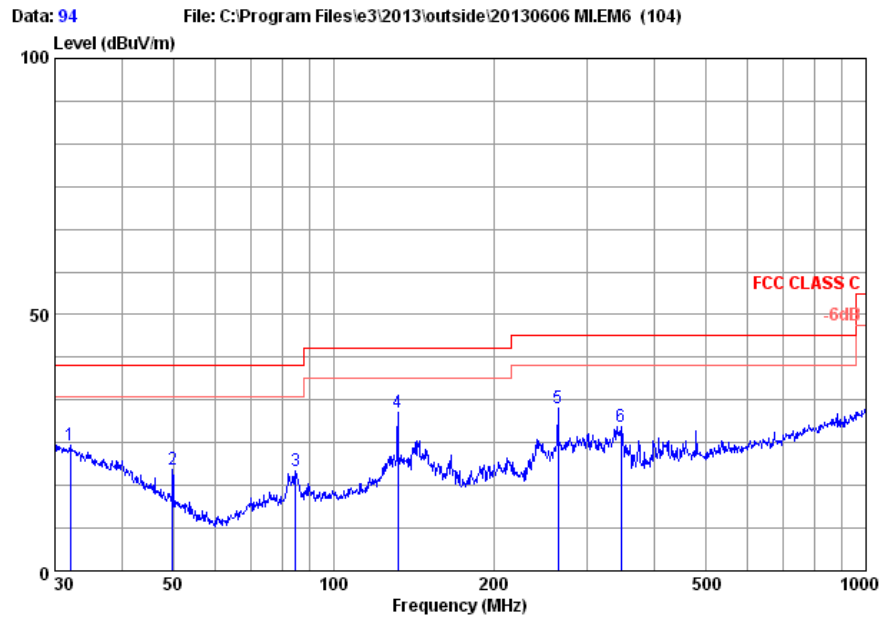
	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	32.18	18.00	33.65	41.49	27.20	1.36	40.00	-6.35	200	0 Peak
2	41.42	13.06	33.42	46.38	27.13	1.11	40.00	-6.58	200	0 Peak
3	49.88	7.93	34.40	52.43	27.11	1.15	40.00	-5.60	200	0 Peak
4	49.88	7.93	31.84	49.87	27.11	1.15	40.00	-8.16	104	158 QP
5	104.54	8.97	26.04	42.60	27.16	1.63	43.50	-17.46	200	0 Peak
6	141.33	7.95	28.40	45.46	26.89	1.88	43.50	-15.10	200	0 Peak
7	242.53	9.16	33.52	48.19	26.37	2.54	46.00	-12.48	200	0 Peak

Test Mode: IEEE 802.11n HT20TX

Test CH1: 2412MHz





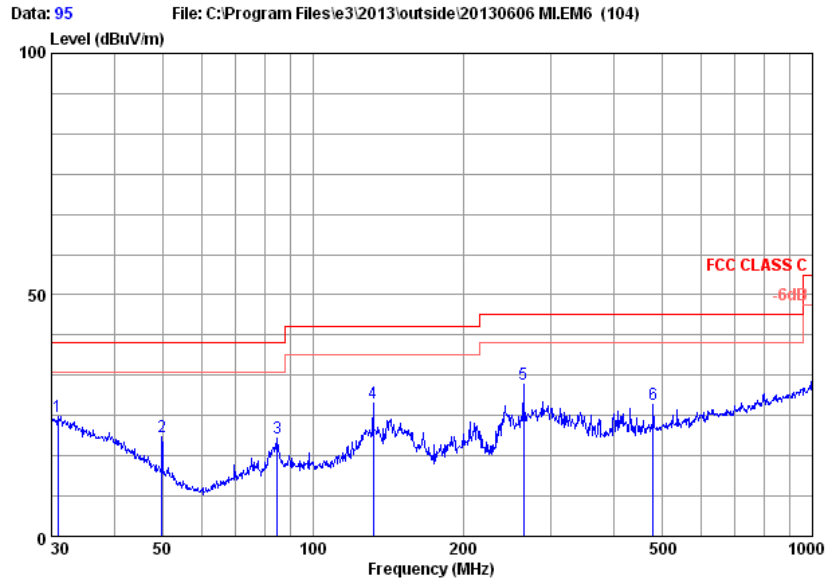


Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 HORIZONTAL  
: RBW:120.000KHz VEW:300.000KHz SWT:Auto  
cut : MI  
mode : N HT20 CH1  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Loss	Line	Limit			Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	cm	deg	
1	32.07	18.09	24.44	32.19	27.20	1.36	40.00	-15.56	200	0 Peak
2	49.88	7.93	19.65	37.68	27.11	1.15	40.00	-20.35	200	0 Peak
3	85.00	8.53	19.57	36.87	27.57	1.74	40.00	-20.43	200	0 Peak
4	132.22	8.50	30.89	47.55	26.94	1.78	43.50	-12.61	200	0 Peak
5	263.82	9.84	31.88	45.75	26.38	2.67	46.00	-14.12	200	0 Peak
6	346.81	12.28	28.26	39.76	26.71	2.93	46.00	-17.74	200	0 Peak

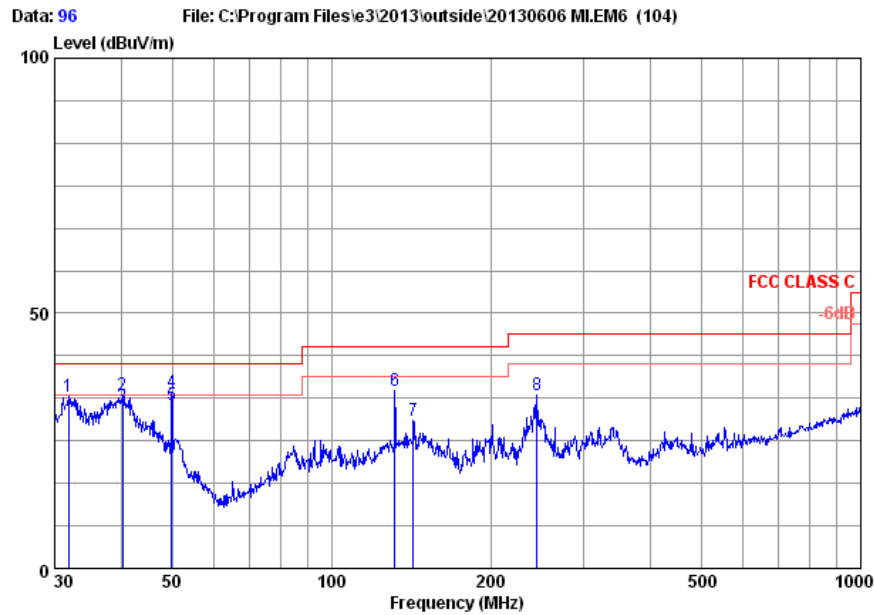
Test Mode: IEEE 802.11n HT20TX

Test CH4: 2437MHz



Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 HORIZONTAL  
: RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ant : MI  
mode : N HT20 CH6  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Loss	Line	Limit			
	MHz	dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	cm	deg	
1	30.85	18.73	24.92	32.36	27.26	1.09	40.00	-15.08	200	0 Peak
2	49.88	7.93	20.49	38.52	27.11	1.15	40.00	-19.51	200	0 Peak
3	85.00	8.53	20.32	37.62	27.57	1.74	40.00	-19.68	200	0 Peak
4	132.22	8.50	27.44	44.10	26.94	1.78	43.50	-16.06	200	0 Peak
5	263.82	9.84	31.39	45.26	26.38	2.67	46.00	-14.61	200	0 Peak
6	480.53	15.12	27.19	36.12	27.53	3.48	46.00	-18.81	200	0 Peak

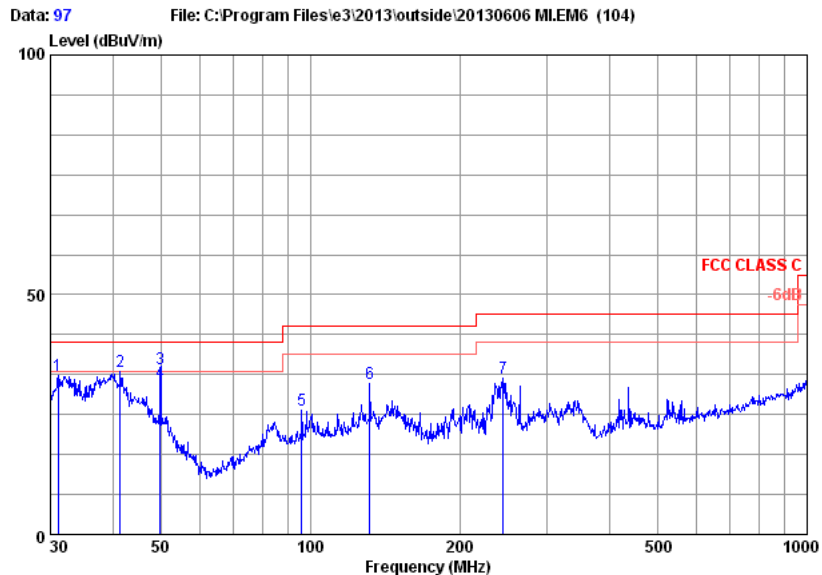


Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 VERTICAL  
 : RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ant : MI  
mode : N HT20 CH6  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Loss	Line	Limit			
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	31.84	18.17	33.84	41.56	27.21	1.32	40.00	-6.16	200	0 Peak
2	40.28	13.73	34.12	46.39	27.10	1.10	40.00	-5.88	200	0 Peak
3	40.28	13.73	31.89	44.16	27.10	1.10	40.00	-8.11	125	136 QP
4	49.88	7.93	34.45	52.48	27.11	1.15	40.00	-5.55	200	0 Peak
5	49.88	7.93	32.15	50.18	27.11	1.15	40.00	-7.85	104	152 QP
6	131.76	8.54	34.75	51.38	26.95	1.78	43.50	-8.75	200	0 Peak
7	142.82	7.87	29.04	46.13	26.86	1.90	43.50	-14.46	200	0 Peak
8	244.23	9.20	33.90	48.46	26.38	2.62	46.00	-12.10	200	0 Peak

Test Mode: IEEE 802.11n HT20TX

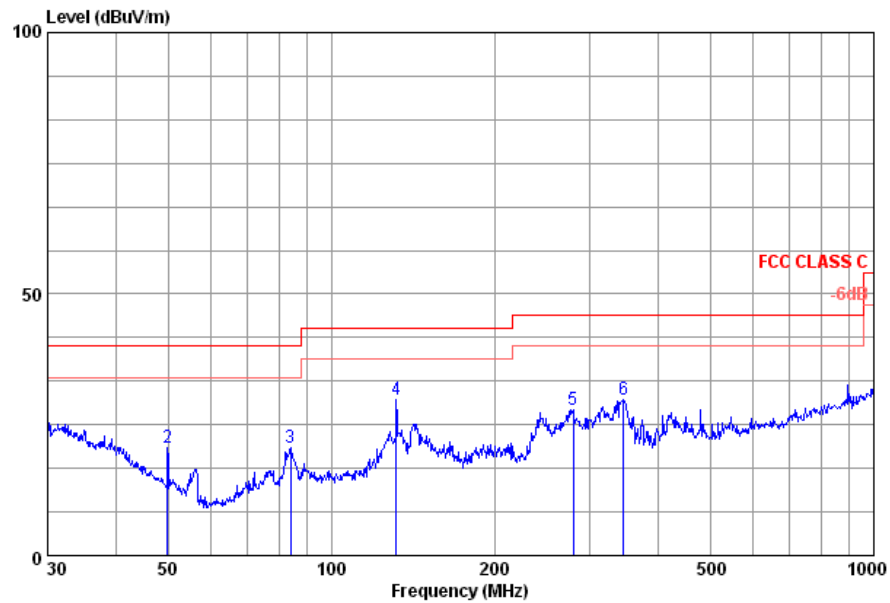
Test CH11: 2462MHz



Site : 966 CHAMBER  
Condition : FCC CLASS C On 2011 HL562 VERTICAL  
RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ant : MI  
mode : N HT20 CH11  
memo :

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq Factor	Level	Level Factor	Loss	Line	Limit			
	MHz	dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	cm	deg
1	31.07	18.57	33.18	40.73	27.24	1.12	40.00	-6.82	200 0 Peak
2	41.42	13.06	33.95	46.91	27.13	1.11	40.00	-6.05	200 0 Peak
3	49.88	7.93	34.45	52.48	27.11	1.15	40.00	-5.55	200 0 Peak
4	49.88	7.93	31.79	49.82	27.11	1.15	40.00	-8.21	104 163 QP
5	96.10	8.75	25.85	42.70	27.32	1.72	43.50	-17.65	200 0 Peak
6	131.76	8.54	31.43	48.06	26.95	1.78	43.50	-12.07	200 0 Peak
7	244.23	9.20	32.70	47.26	26.38	2.62	46.00	-13.30	200 0 Peak

Data: 98 File: C:\Program Files\es3\2013\outside\20130606 MLEM6 (104)

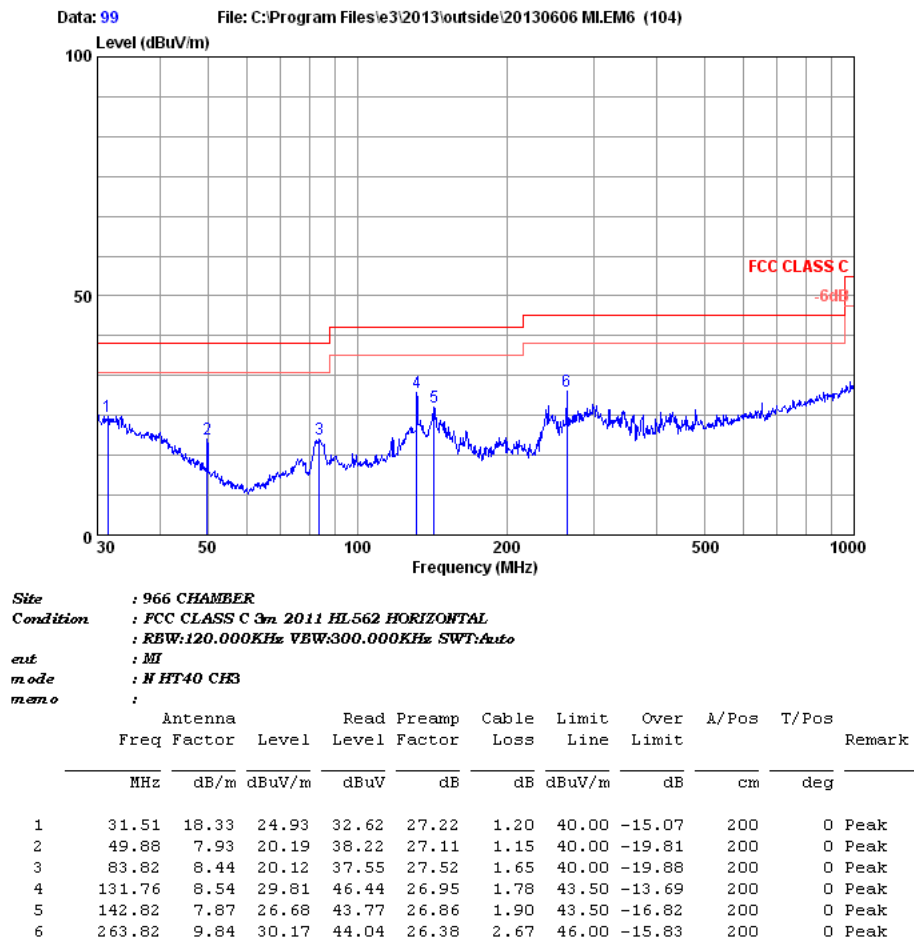


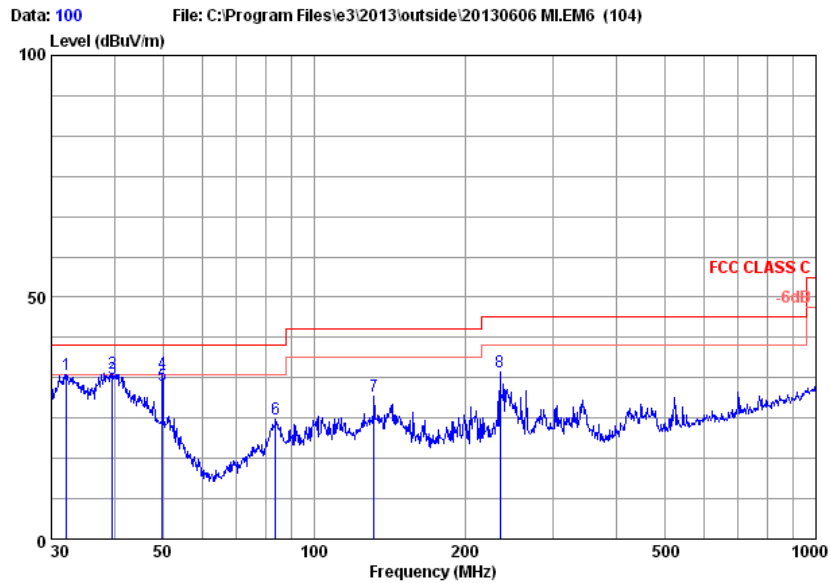
Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 HORIZONTAL  
RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ant : MI  
mode : N HT20 CH11  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	30.00	19.18	26.25	33.28	27.33	1.12	40.00	-13.75	200	0 Peak
2	49.88	7.93	20.72	38.75	27.11	1.15	40.00	-19.28	200	0 Peak
3	84.11	8.47	20.50	37.89	27.53	1.67	40.00	-19.50	200	0 Peak
4	131.76	8.54	29.78	46.41	26.95	1.78	43.50	-13.72	200	0 Peak
5	279.04	10.31	27.98	41.33	26.38	2.72	46.00	-18.02	200	0 Peak
6	345.60	12.28	29.84	41.30	26.67	2.93	46.00	-16.16	200	0 Peak

Test Mode: IEEE 802.11n HT40TX

Test CH3: 2422MHz





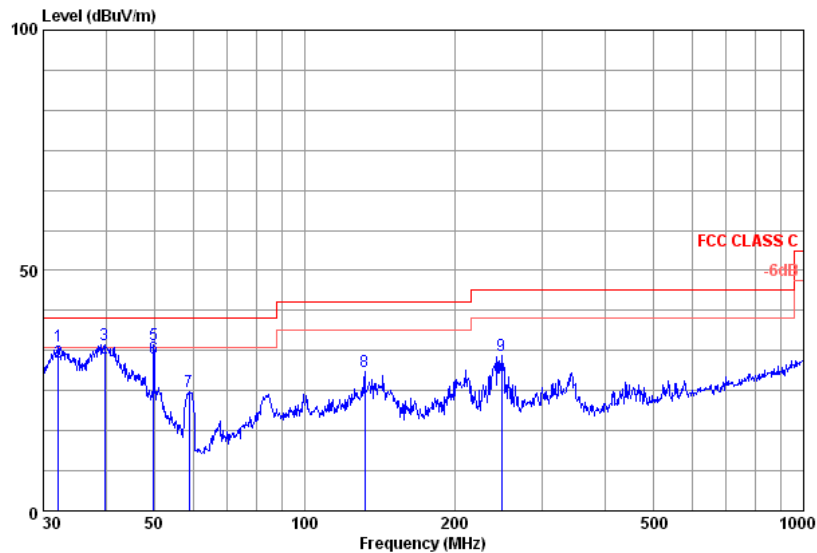
Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 VERTICAL  
 : RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ant : MI  
mode : N HT40 CH3  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		Remark
	MHz		dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	cm	deg
1	32.18	18.00	33.95	41.79	27.20	1.36	40.00	-6.05	200	0 Peak
2	39.71	14.03	34.29	46.25	27.09	1.10	40.00	-5.71	200	0 Peak
3	39.71	14.03	33.01	44.97	27.09	1.10	40.00	-6.99	104	178 QP
4	49.88	7.93	34.21	52.24	27.11	1.15	40.00	-5.79	200	0 Peak
5	49.88	7.93	31.83	49.86	27.11	1.15	40.00	-8.17	104	164 QP
6	83.82	8.44	24.71	42.14	27.52	1.65	40.00	-15.29	200	0 Peak
7	131.76	8.54	29.54	46.17	26.95	1.78	43.50	-13.96	200	0 Peak
8	234.99	8.88	34.58	49.63	26.35	2.42	46.00	-11.42	200	0 Peak

Test Mode: IEEE 802.11n HT40TX

Test CH6: 2437MHz

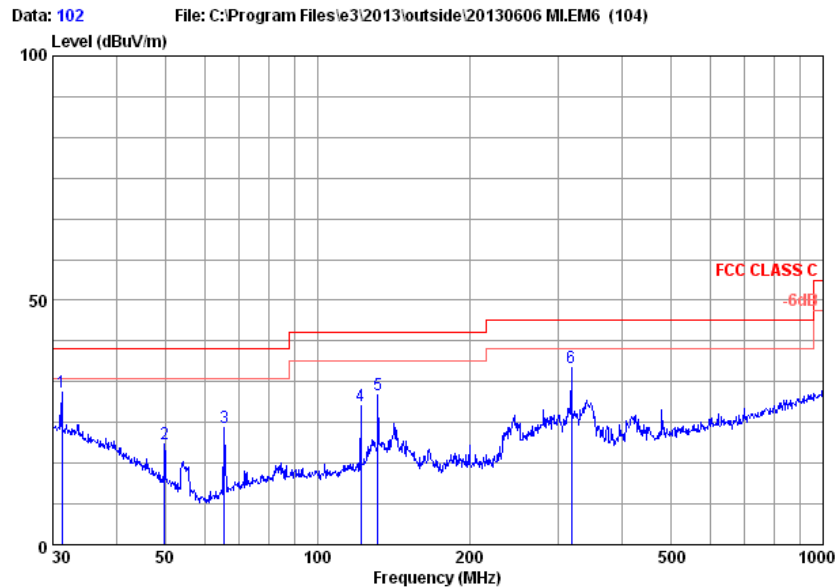
Data: 101 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (104)



Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 VERTICAL  
: RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ext : MI  
mode : N HT40 CH6  
memo :

		Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit			
	MHz		dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	cm	deg	
1	32.18	18.00	34.25	42.09	27.20	1.36	40.00	-5.75	200	0	Peak
2	32.18	18.00	30.83	38.67	27.20	1.36	40.00	-9.17	104	159	QP
3	39.85	13.94	34.65	46.71	27.10	1.10	40.00	-5.35	200	0	Peak
4	39.85	13.94	31.22	43.28	27.10	1.10	40.00	-8.78	153	179	QP
5	49.88	7.93	34.51	52.54	27.11	1.15	40.00	-5.49	200	0	Peak
6	49.88	7.93	31.83	49.86	27.11	1.15	40.00	-8.17	104	135	QP
7	58.82	3.88	24.74	46.62	27.12	1.36	40.00	-15.26	200	0	Peak
8	132.22	8.50	28.96	45.62	26.94	1.78	43.50	-14.54	200	0	Peak
9	248.55	9.36	32.18	46.57	26.42	2.67	46.00	-13.82	200	0	Peak



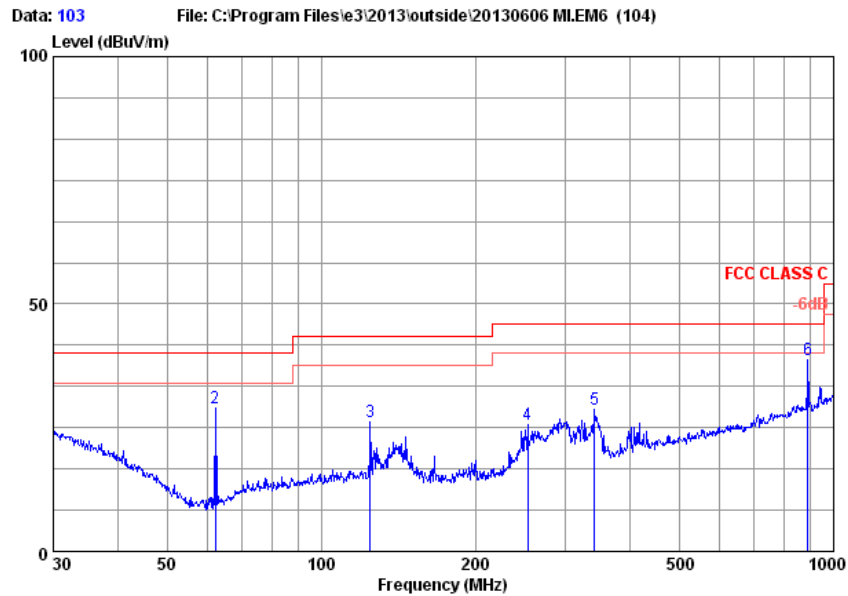


Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 HORIZONTAL  
RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ant : MI  
mode : N HT40 CH6  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Loss	Line	Limit			
	MHz	dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	cm	deg	
1	31.29	18.49	31.07	38.66	27.23	1.15	40.00	-8.93	200	0 Peak
2	49.88	7.93	20.50	38.53	27.11	1.15	40.00	-19.50	200	0 Peak
3	65.57	5.00	23.96	44.59	26.98	1.35	40.00	-16.04	200	0 Peak
4	121.98	9.42	28.28	44.32	27.19	1.73	43.50	-15.22	200	0 Peak
5	131.76	8.54	30.55	47.18	26.95	1.78	43.50	-12.95	200	0 Peak
6	317.70	11.50	36.09	47.85	26.23	2.97	46.00	-9.91	200	0 Peak

Test Mode: IEEE 802.11n HT40TX

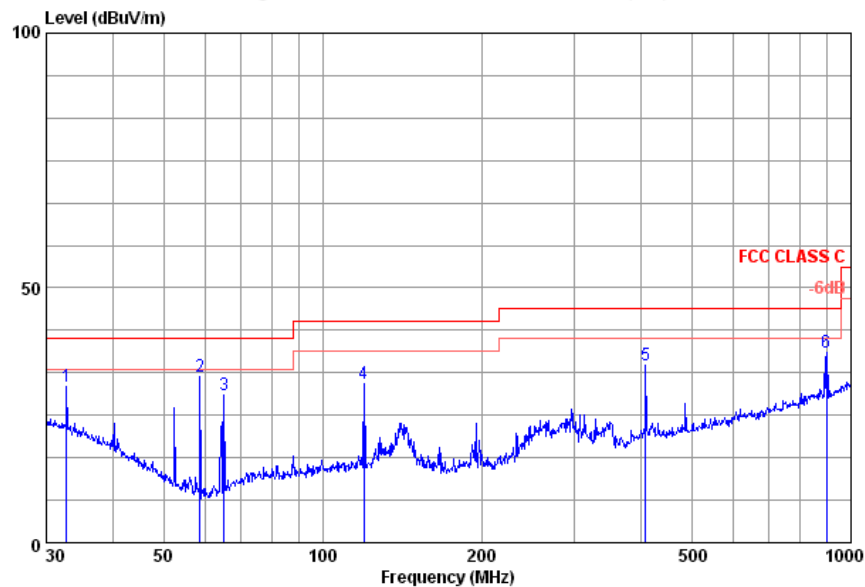
Test CH9: 2452MHz



Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 HORIZONTAL  
: RBW:120.000KHz VEW:300.000KHz SWT:Auto  
ent : MI  
mode : N HT40 CH9  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	30.00	19.18	24.72	31.75	27.33	1.12	40.00	-15.28	200	0 Peak
2	62.21	4.06	29.07	50.61	27.06	1.46	40.00	-10.93	200	0 Peak
3	124.57	9.20	26.25	42.44	27.13	1.74	43.50	-17.25	200	0 Peak
4	252.95	9.51	25.62	39.81	26.39	2.69	46.00	-20.38	200	0 Peak
5	341.98	12.15	28.78	40.27	26.57	2.93	46.00	-17.22	200	0 Peak
6	890.73	20.45	38.78	40.90	27.51	4.94	46.00	-7.22	200	0 Peak

Data: 104 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (104)

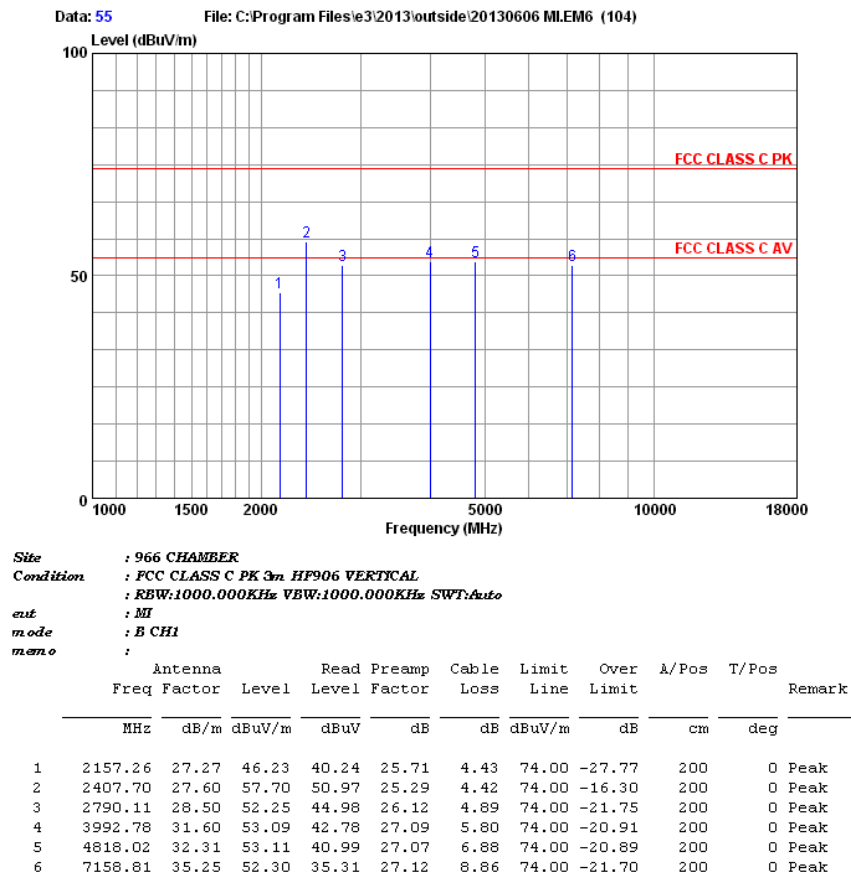


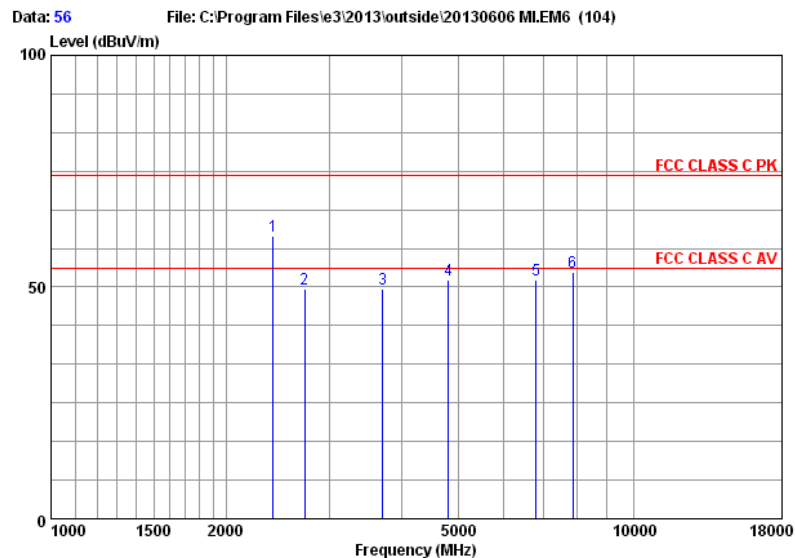
Site : 966 CHAMBER  
Condition : FCC CLASS C 3m 2011 HL562 HORIZONTAL  
 : RBW:120.000KHz VBW:300.000KHz SWT:Auto  
ant : MI  
mode : N HT40 CH9  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	32.75	17.68	30.54	38.69	27.17	1.34	40.00	-9.46	200	0 Peak
2	58.61	3.93	32.65	54.48	27.12	1.36	40.00	-7.35	200	0 Peak
3	65.11	4.79	28.99	49.79	26.99	1.40	40.00	-11.01	200	0 Peak
4	119.86	9.63	31.25	47.14	27.23	1.71	43.50	-12.25	200	0 Peak
5	408.95	13.65	34.80	44.98	27.24	3.41	46.00	-11.20	200	0 Peak
6	900.15	20.57	37.39	39.57	27.68	4.93	46.00	-8.61	200	0 Peak

**Table 9 Radiated Emission Test Data(Above 1GHz)**

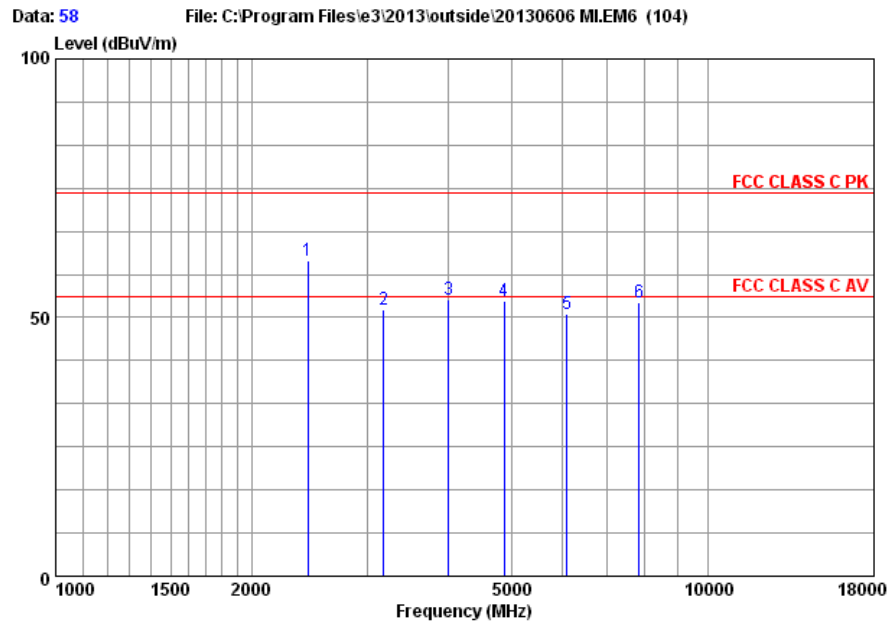
Test Mode: IEEE 802.11b TX





Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : B CH1  
memo :

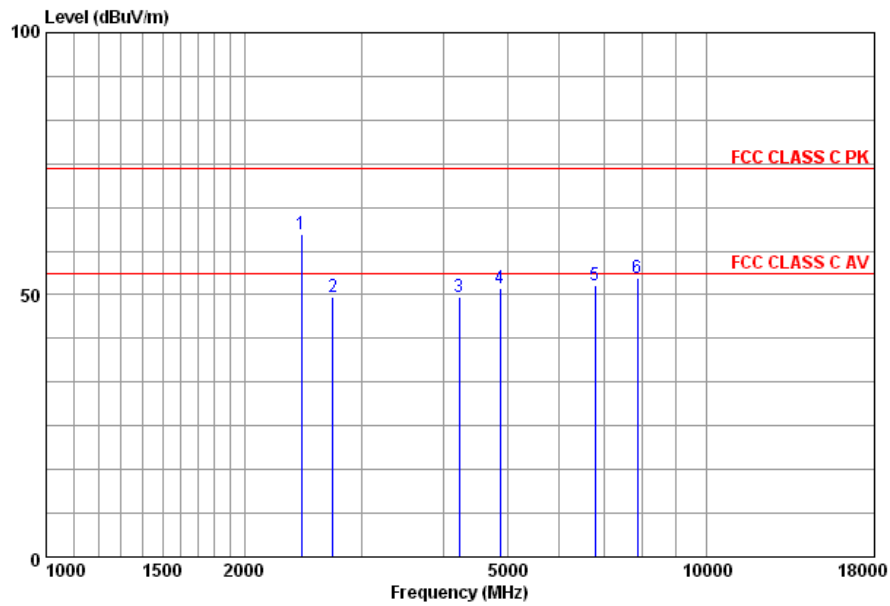
	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Loss	Line	Limit			
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2407.70	27.60	60.99	54.26	25.29	4.42	74.00	-13.01	200	0 Peak
2	2726.34	28.35	49.63	42.45	26.04	4.87	74.00	-24.37	200	0 Peak
3	3714.44	31.09	49.63	39.55	27.02	6.01	74.00	-24.37	200	0 Peak
4	4818.02	32.31	51.58	39.46	27.07	6.88	74.00	-22.42	200	0 Peak
5	6815.55	34.78	51.57	35.61	26.58	7.76	74.00	-22.43	200	0 Peak
6	7875.25	35.53	53.24	35.96	26.52	8.27	74.00	-20.76	200	0 Peak



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HF906 VERTICAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : B CH6  
memo :

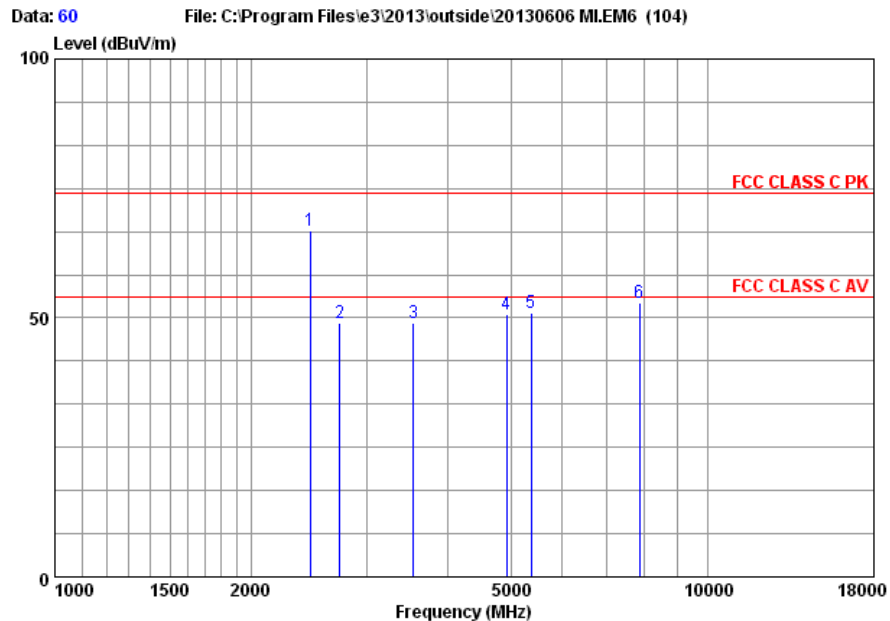
	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm
									deg
1	2435.70	27.62	60.93	54.17	25.32	4.46	74.00	-13.07	200
2	3186.87	29.72	51.60	43.33	26.50	5.05	74.00	-22.40	200
3	4004.34	31.60	53.40	43.07	27.07	5.80	74.00	-20.60	200
4	4874.04	32.43	53.32	41.37	26.98	6.50	74.00	-20.68	200
5	6088.99	34.03	50.77	35.07	26.53	8.20	74.00	-23.23	200
6	7852.52	35.53	53.05	35.83	26.55	8.24	74.00	-20.95	200

Data: 59 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (104)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HF906 HORIZONTAL  
: REW:1000.000KHz VEW:1000.000KHz SWT:Auto  
ant : MI  
mode : B CH6  
memo :

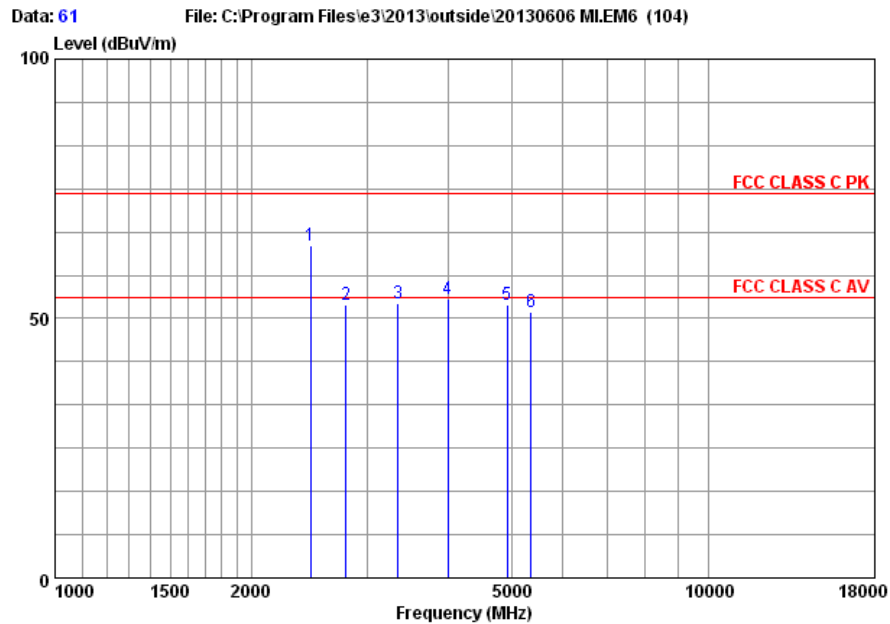
	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2435.70	27.62	61.56	54.80	25.32	4.46	74.00	-12.44	200	0 Peak
2	2718.47	28.30	49.51	42.40	26.02	4.83	74.00	-24.49	200	0 Peak
3	4230.40	31.55	49.54	37.53	26.35	6.81	74.00	-24.46	200	0 Peak
4	4874.04	32.43	51.35	39.40	26.98	6.50	74.00	-22.65	200	0 Peak
5	6795.88	34.75	51.87	35.81	26.58	7.89	74.00	-22.13	200	0 Peak
6	7875.25	35.53	53.20	35.92	26.52	8.27	74.00	-20.80	200	0 Peak



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : B CH11  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2464.02	27.66	66.74	59.99	25.40	4.49	74.00	-7.26	200	0 Peak
2	2734.23	28.35	49.11	41.94	26.05	4.87	74.00	-24.89	200	0 Peak
3	3546.58	30.79	49.08	39.23	26.44	5.50	74.00	-24.92	200	0 Peak
4	4930.72	32.55	50.73	38.87	27.12	6.43	74.00	-23.27	200	0 Peak
5	5377.35	33.29	50.86	37.47	26.92	7.02	74.00	-23.14	200	0 Peak
6	7875.25	35.53	52.92	35.64	26.52	8.27	74.00	-21.08	200	0 Peak



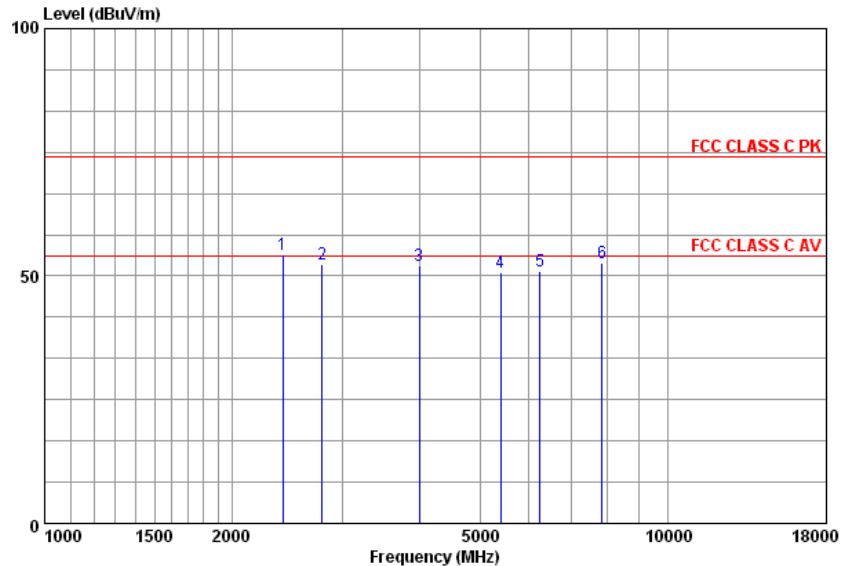


Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : B CH11  
memo :

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz		dB/m	dBuV/m	dBuV	dB	dB	dB	
1	2464.02	27.66	64.17	57.42	25.40	4.49	74.00	-9.83	200 0 Peak
2	2790.11	28.50	52.63	45.36	26.12	4.89	74.00	-21.37	200 0 Peak
3	3347.37	30.23	52.84	43.67	27.23	6.17	74.00	-21.16	200 0 Peak
4	3992.78	31.60	53.83	43.52	27.09	5.80	74.00	-20.17	200 0 Peak
5	4930.72	32.55	52.60	40.74	27.12	6.43	74.00	-21.40	200 0 Peak
6	5361.83	33.29	51.16	37.84	26.95	6.98	74.00	-22.84	200 0 Peak

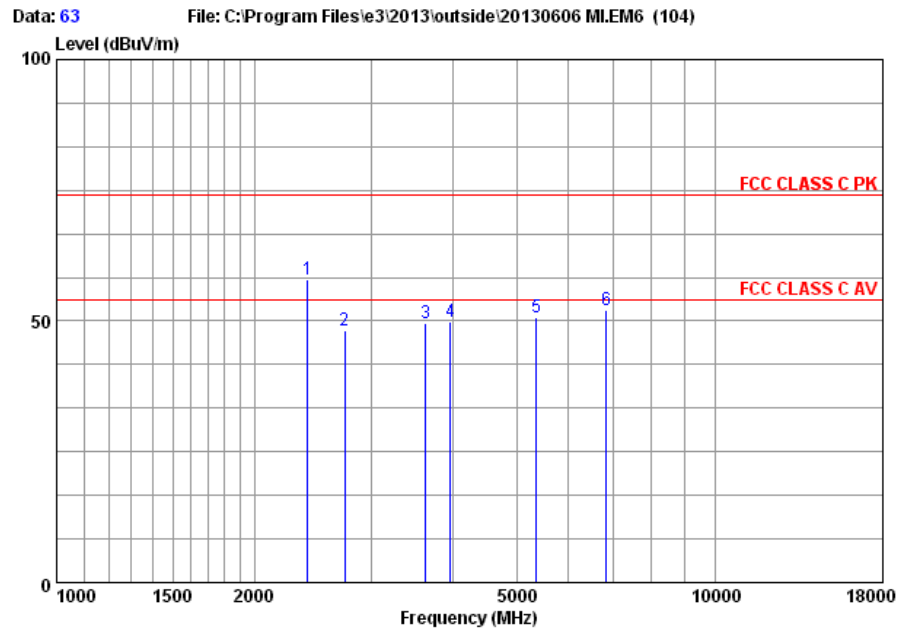
# Test Mode: IEEE 802.11g TX

Data: 62 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (104)



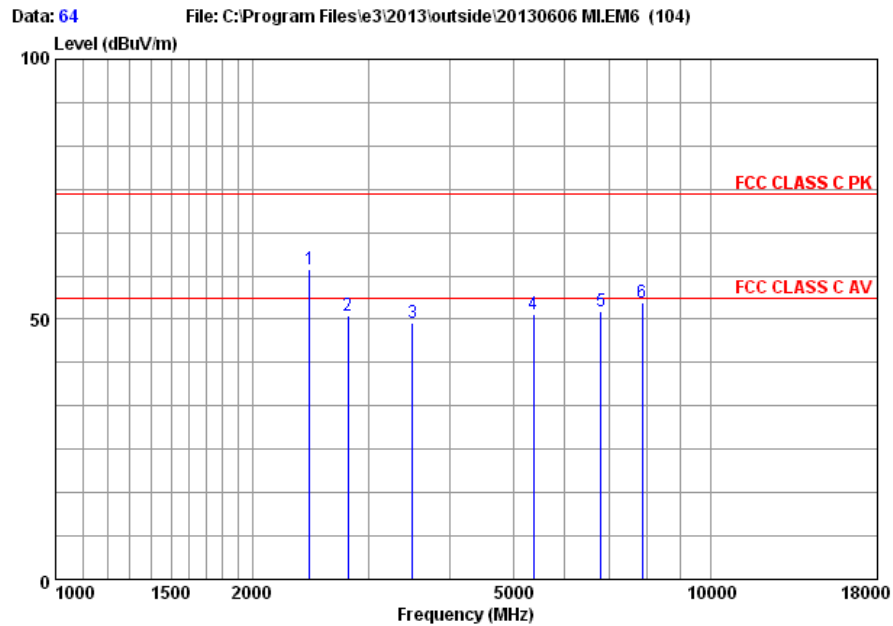
Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
 : REW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ent : MI  
mode : G CH1  
memo :

		Antenna		Read Preamp		Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit			
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg	
1	2414.67	27.60	54.40	47.67	25.30	4.43	74.00	-19.60	200	0	Peak
2	2790.11	28.50	52.32	45.05	26.12	4.89	74.00	-21.68	200	0	Peak
3	3992.78	31.60	52.13	41.82	27.09	5.80	74.00	-21.87	200	0	Peak
4	5392.92	33.32	50.73	37.22	26.88	7.07	74.00	-23.27	200	0	Peak
5	6249.46	34.10	50.90	36.02	26.77	7.55	74.00	-23.10	200	0	Peak
6	7852.52	35.53	52.73	35.51	26.55	8.24	74.00	-21.27	200	0	Peak



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
: RBW:1000.000KHz VEW:1000.000KHz SWT:Auto  
ant : MI  
mode : G CH1  
memo :

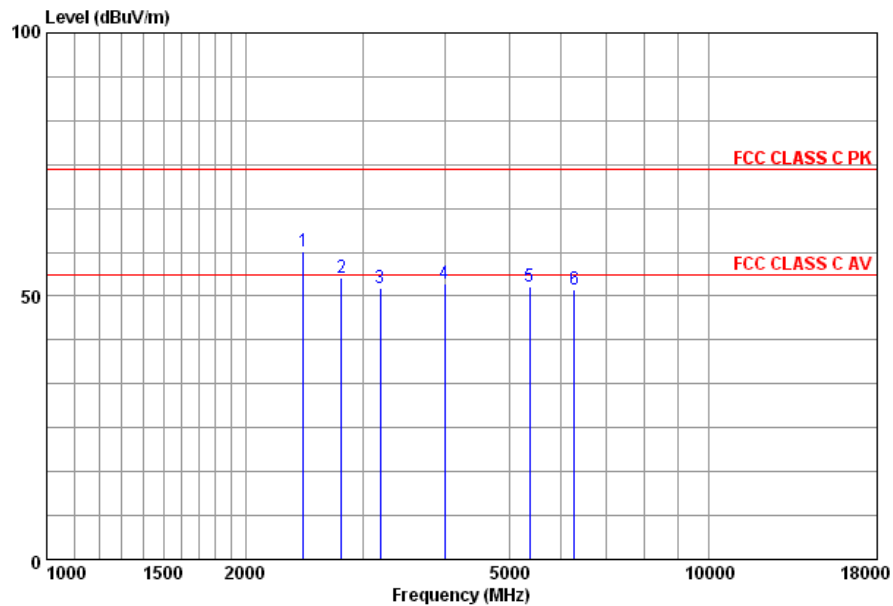
	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2407.70	27.60	57.87	51.14	25.29	4.42	74.00	-16.13	200	0 Peak
2	2742.14	28.35	48.31	41.15	26.06	4.87	74.00	-25.69	200	0 Peak
3	3640.05	30.93	49.60	39.68	26.69	5.68	74.00	-24.40	200	0 Peak
4	3969.77	31.57	49.77	39.36	26.83	5.67	74.00	-24.23	200	0 Peak
5	5361.83	33.29	50.82	37.50	26.95	6.98	74.00	-23.18	200	0 Peak
6	6835.28	34.81	52.01	36.50	26.97	7.67	74.00	-21.99	200	0 Peak



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : G CH6  
memo :

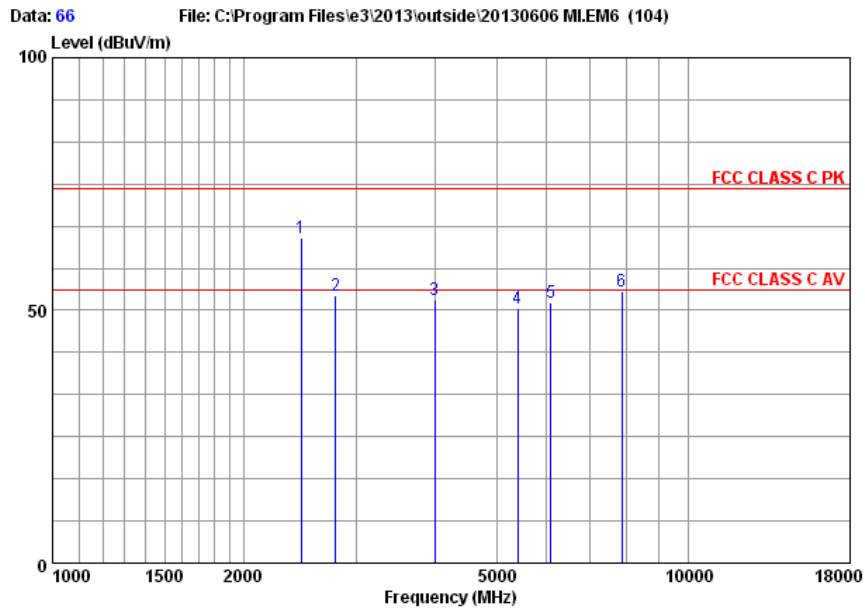
	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	
1	2442.75	27.64	59.47	52.72	25.35	4.46	74.00	-14.53	200 0 Peak
2	2798.19	28.55	50.76	43.42	26.13	4.92	74.00	-23.24	200 0 Peak
3	3505.81	30.70	49.31	39.89	26.72	5.44	74.00	-24.69	200 0 Peak
4	5377.35	33.29	50.97	37.58	26.92	7.02	74.00	-23.03	200 0 Peak
5	6815.55	34.78	51.42	35.46	26.58	7.76	74.00	-22.58	200 0 Peak
6	7875.25	35.53	53.16	35.88	26.52	8.27	74.00	-20.84	200 0 Peak

Data: 65 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (104)



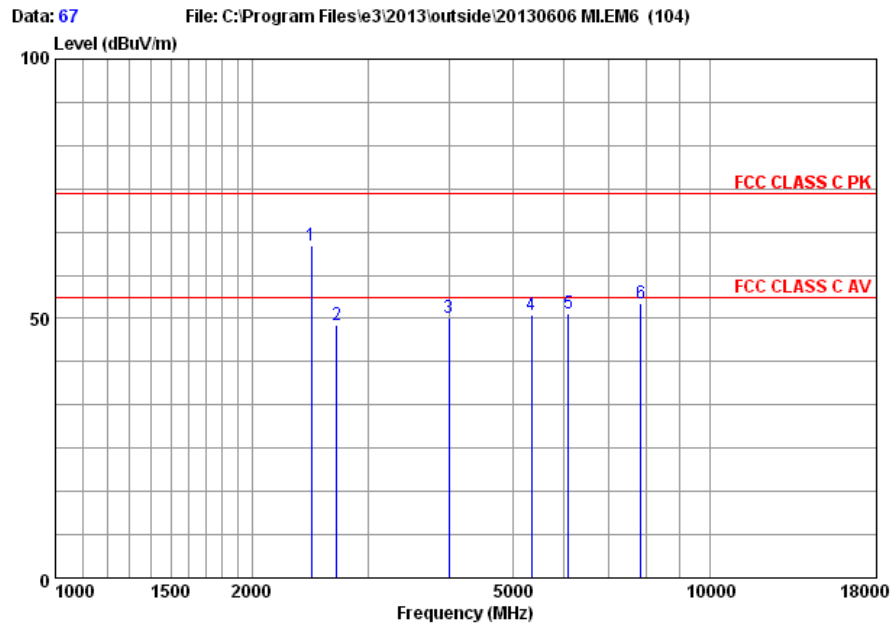
Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
: REW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : G CH6  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2442.75	27.64	58.60	51.85	25.35	4.46	74.00	-15.40	200	0 Peak
2	2790.11	28.50	53.42	46.15	26.12	4.89	74.00	-20.58	200	0 Peak
3	3196.09	29.72	51.40	43.11	26.53	5.10	74.00	-22.60	200	0 Peak
4	3992.78	31.60	52.28	41.97	27.09	5.80	74.00	-21.72	200	0 Peak
5	5377.35	33.29	51.73	38.34	26.92	7.02	74.00	-22.27	200	0 Peak
6	6267.55	34.11	51.22	36.28	26.71	7.54	74.00	-22.78	200	0 Peak



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HF906 VERTICAL  
: REW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : G CH11  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2464.02	27.66	64.36	57.61	25.40	4.49	74.00	-9.64	200	0 Peak
2	2790.11	28.50	53.05	45.78	26.12	4.89	74.00	-20.95	200	0 Peak
3	3992.78	31.60	52.19	41.88	27.09	5.80	74.00	-21.81	200	0 Peak
4	5392.92	33.32	50.41	36.90	26.88	7.07	74.00	-23.59	200	0 Peak
5	6088.99	34.03	51.41	35.71	26.53	8.20	74.00	-22.59	200	0 Peak
6	7875.25	35.53	53.67	36.39	26.52	8.27	74.00	-20.33	200	0 Peak

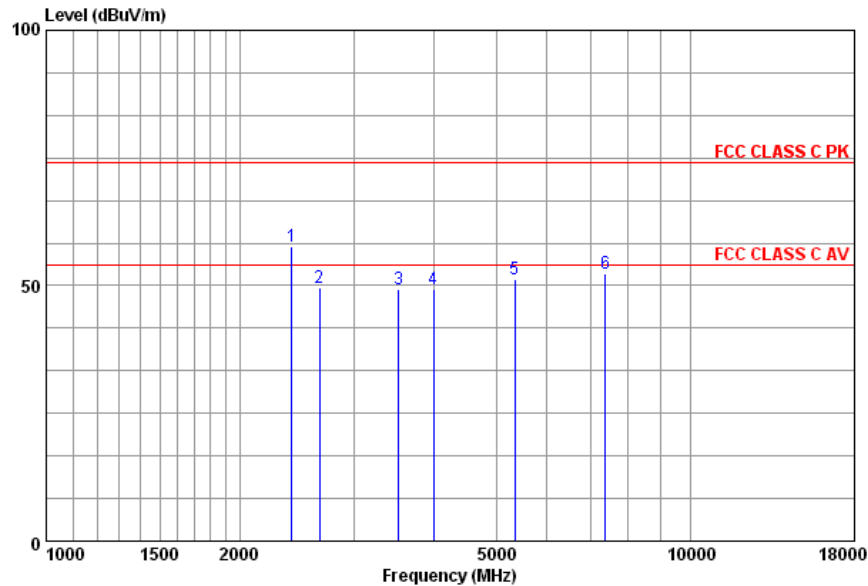


Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
: RBW:1000.000KHz VEW:1000.000KHz SWT:Auto  
ant : MI  
mode : G CH11  
memo :

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz		dB/m	dBuV/m	dBuV	dB	dB	dB	
1	2464.02	27.66	64.18	57.43	25.40	4.49	74.00	-9.82	200 0 Peak
2	2695.00	28.25	48.86	41.73	25.90	4.78	74.00	-25.14	200 0 Peak
3	3992.78	31.60	50.08	39.77	27.09	5.80	74.00	-23.92	200 0 Peak
4	5346.36	33.27	50.78	37.56	26.98	6.93	74.00	-23.22	200 0 Peak
5	6088.99	34.03	50.88	35.18	26.53	8.20	74.00	-23.12	200 0 Peak
6	7852.52	35.53	53.01	35.79	26.55	8.24	74.00	-20.99	200 0 Peak

Test Mode: IEEE 802.11n HT20TX

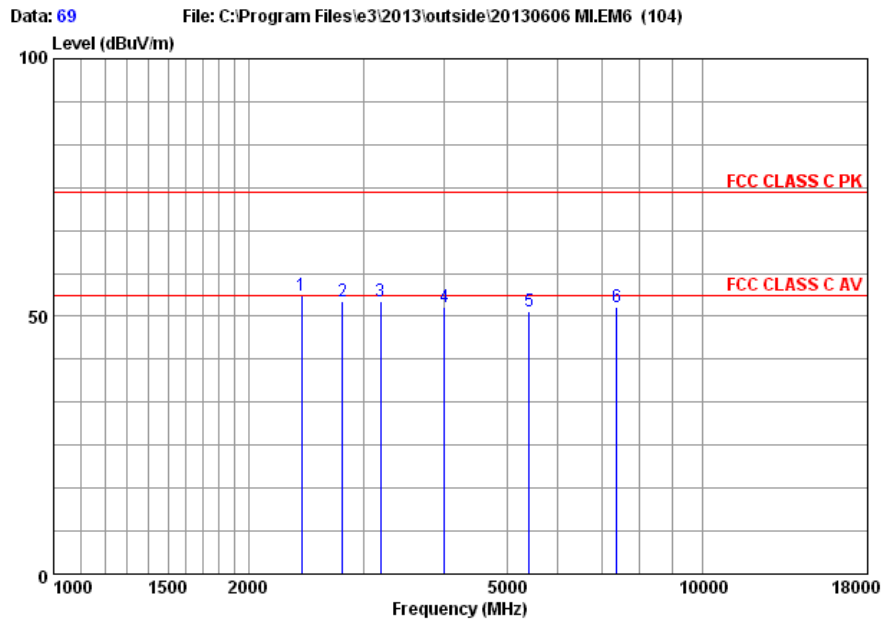
Data: 68 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (104)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HF906 HORIZONTAL  
: REW:1000.000KHz VBW:1000.000KHz SWT:Auto  
cut : MI  
mode : N20 CH1  
memo :

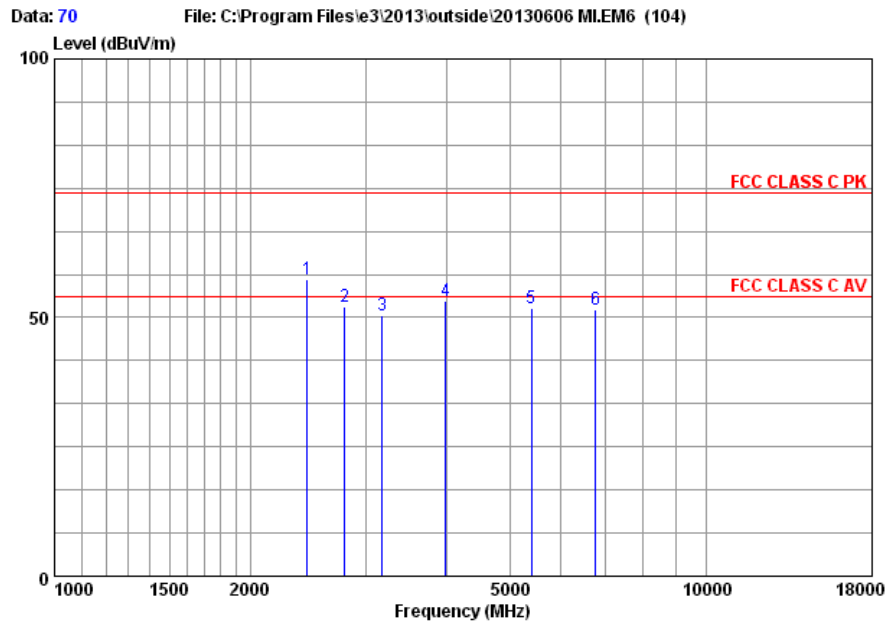
	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Loss	Line	Limit			Remark
	MHz	dB/m	dBUV/m	dBuV	dB	dB	dBUV/m	dB	cm	deg
1	2407.70	27.60	57.79	51.06	25.29	4.42	74.00	-16.21	200	0 Peak
2	2656.33	28.11	49.51	42.53	25.82	4.69	74.00	-24.49	200	0 Peak
3	3526.13	30.76	49.28	39.57	26.56	5.51	74.00	-24.72	200	0 Peak
4	3992.78	31.60	49.43	39.12	27.09	5.80	74.00	-24.57	200	0 Peak
5	5346.36	33.27	51.21	37.99	26.98	6.93	74.00	-22.79	200	0 Peak
6	7390.07	35.50	52.35	35.94	27.00	7.91	74.00	-21.65	200	0 Peak





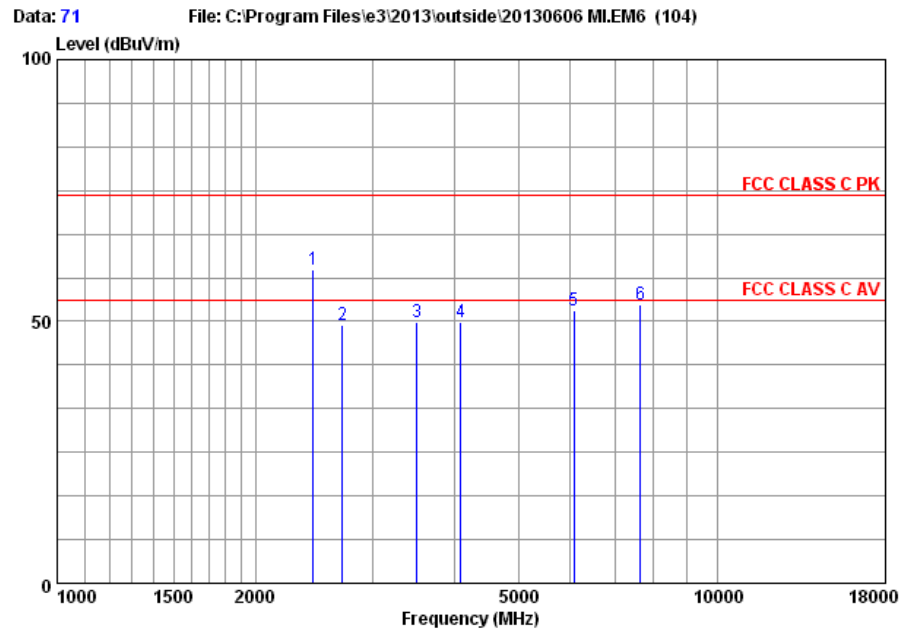
Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
: REW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : H20 CH1  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2414.67	27.60	54.03	47.30	25.30	4.43	74.00	-19.97	200	0 Peak
2	2790.11	28.50	52.80	45.53	26.12	4.89	74.00	-21.20	200	0 Peak
3	3196.09	29.72	52.79	44.50	26.53	5.10	74.00	-21.21	200	0 Peak
4	4004.34	31.60	51.83	41.50	27.07	5.80	74.00	-22.17	200	0 Peak
5	5408.53	33.35	51.03	37.44	26.85	7.09	74.00	-22.97	200	0 Peak
6	7390.07	35.50	51.89	35.48	27.00	7.91	74.00	-22.11	200	0 Peak



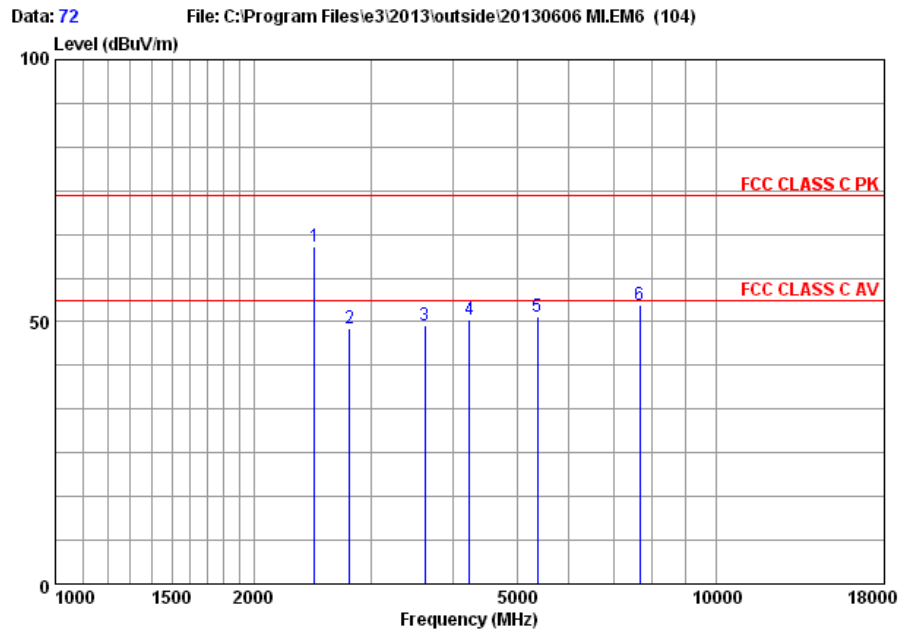
Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HF906 VERTICAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : H20 CH6  
memo :

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm
1	2442.75	27.64	57.39	50.64	25.35	4.46	74.00	-16.61	200
2	2790.11	28.50	52.23	44.96	26.12	4.89	74.00	-21.77	200
3	3186.87	29.72	50.41	42.14	26.50	5.05	74.00	-23.59	200
4	3981.26	31.57	53.15	42.76	26.96	5.78	74.00	-20.85	200
5	5392.92	33.32	51.70	38.19	26.88	7.07	74.00	-22.30	200
6	6776.27	34.71	51.63	35.47	26.57	8.02	74.00	-22.37	200



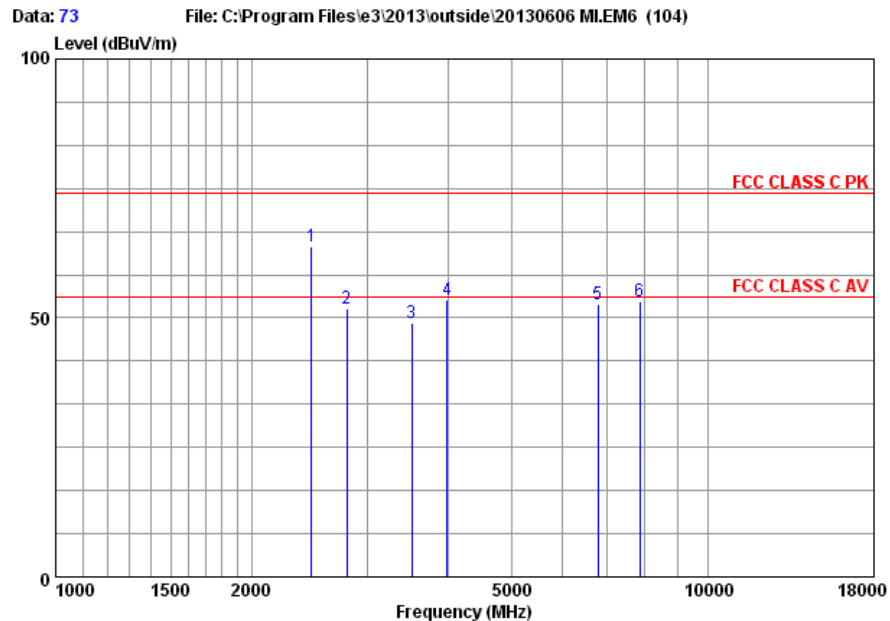
Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HF906 HORIZONTAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : N20 CH6  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2442.75	27.64	59.99	53.24	25.35	4.46	74.00	-14.01	200	0 Peak
2	2702.80	28.25	49.43	42.34	25.94	4.78	74.00	-24.57	200	0 Peak
3	3505.81	30.70	49.79	40.37	26.72	5.44	74.00	-24.21	200	0 Peak
4	4086.18	31.58	49.83	39.70	26.94	5.49	74.00	-24.17	200	0 Peak
5	6071.42	34.03	51.96	36.40	26.48	8.01	74.00	-22.04	200	0 Peak
6	7650.89	35.57	53.32	36.00	26.86	8.61	74.00	-20.68	200	0 Peak



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
: REW:1000.000KHz VEW:1000.000KHz SWT:Auto  
ent : MI  
mode : N20 CH11  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2471.16	27.68	64.25	57.49	25.42	4.50	74.00	-9.75	200	0 Peak
2	2790.11	28.50	48.62	41.35	26.12	4.89	74.00	-25.38	200	0 Peak
3	3629.54	30.93	49.22	39.27	26.66	5.68	74.00	-24.78	200	0 Peak
4	4242.64	31.55	50.51	38.68	26.53	6.81	74.00	-23.49	200	0 Peak
5	5377.35	33.29	50.97	37.58	26.92	7.02	74.00	-23.03	200	0 Peak
6	7673.03	35.56	53.29	35.77	26.88	8.84	74.00	-20.71	200	0 Peak

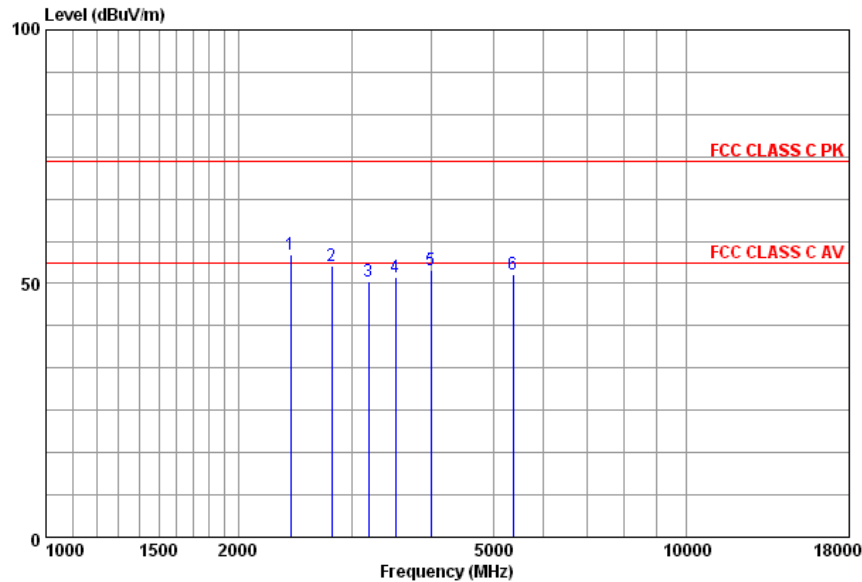


Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : H20 CH11  
memo :

	Antenna			Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit			Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg	
1	2471.16	27.68	63.74	56.98	25.42	4.50	74.00	-10.26	200	0	Peak
2	2798.19	28.55	51.68	44.34	26.13	4.92	74.00	-22.32	200	0	Peak
3	3515.96	30.73	49.11	39.58	26.64	5.44	74.00	-24.89	200	0	Peak
4	3981.26	31.57	53.55	43.16	26.96	5.78	74.00	-20.45	200	0	Peak
5	6795.88	34.75	52.56	36.50	26.58	7.89	74.00	-21.44	200	0	Peak
6	7875.25	35.53	53.30	36.02	26.52	8.27	74.00	-20.70	200	0	Peak

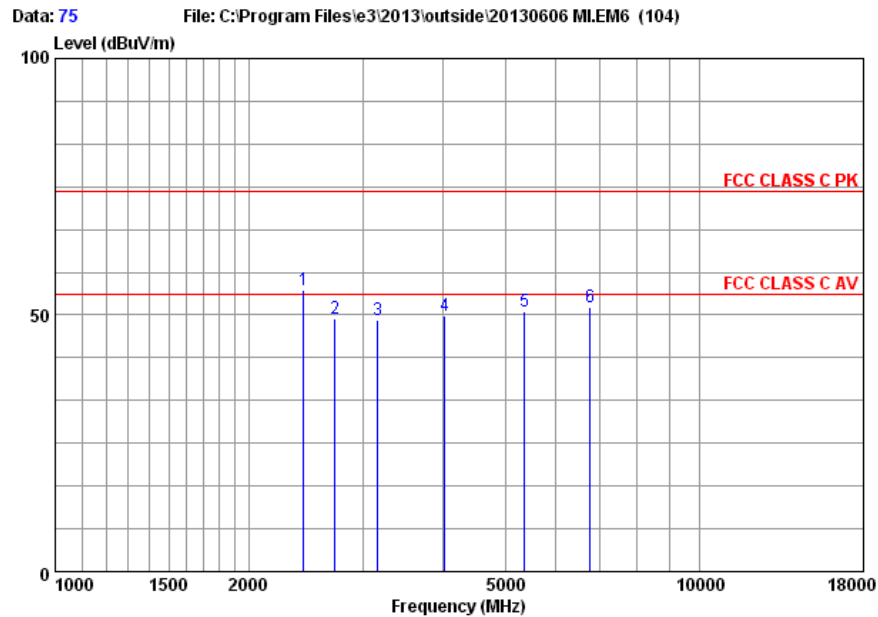
Test Mode: IEEE 802.11n HT40TX

Data: 74 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (104)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : N40 CH3  
memo :

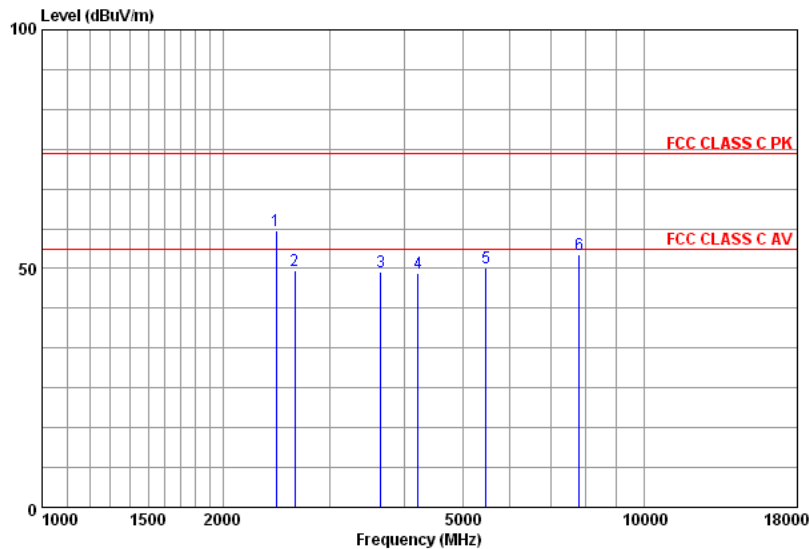
	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm
1	2414.67	27.60	55.72	48.99	25.30	4.43	74.00	-18.28	200
2	2798.19	28.55	53.37	46.03	26.13	4.92	74.00	-20.63	200
3	3196.09	29.72	50.50	42.21	26.53	5.10	74.00	-23.50	200
4	3515.96	30.73	51.16	41.63	26.64	5.44	74.00	-22.84	200
5	3992.78	31.60	52.61	42.30	27.09	5.80	74.00	-21.39	200
6	5377.35	33.29	51.81	38.42	26.92	7.02	74.00	-22.19	200



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HF906 HORIZONTAL  
RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ext : MI  
mode : H40 CH3  
memo :

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm deg
1	2428.67	27.62	54.96	48.22	25.31	4.43	74.00	-19.04	200 0 Peak
2	2718.47	28.30	49.19	42.08	26.02	4.83	74.00	-24.81	200 0 Peak
3	3168.50	29.66	49.07	40.85	26.44	5.00	74.00	-24.93	200 0 Peak
4	4027.55	31.59	49.89	39.74	27.01	5.57	74.00	-24.11	200 0 Peak
5	5361.83	33.29	50.81	37.49	26.95	6.98	74.00	-23.19	200 0 Peak
6	6776.27	34.71	51.50	35.34	26.57	8.02	74.00	-22.50	200 0 Peak

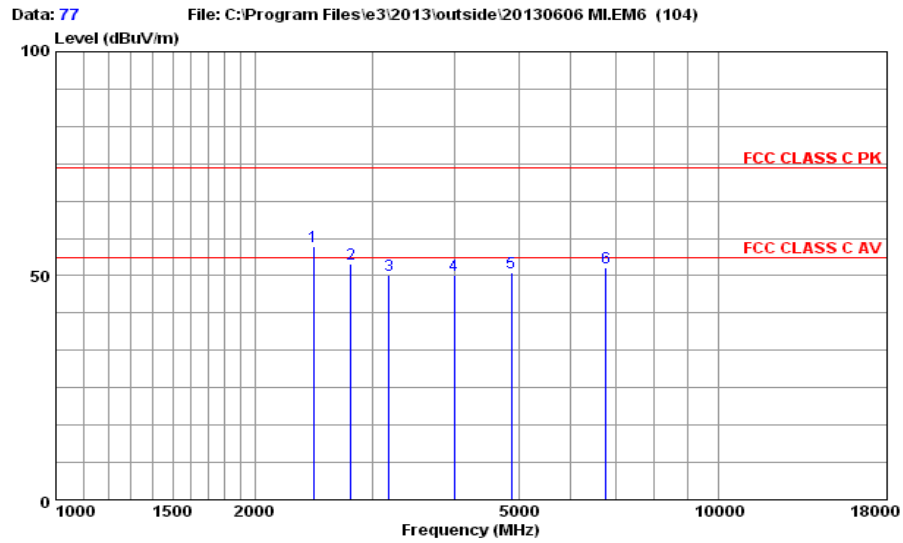
Data: 76 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (104)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
: KBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : H40 CH6  
memo :

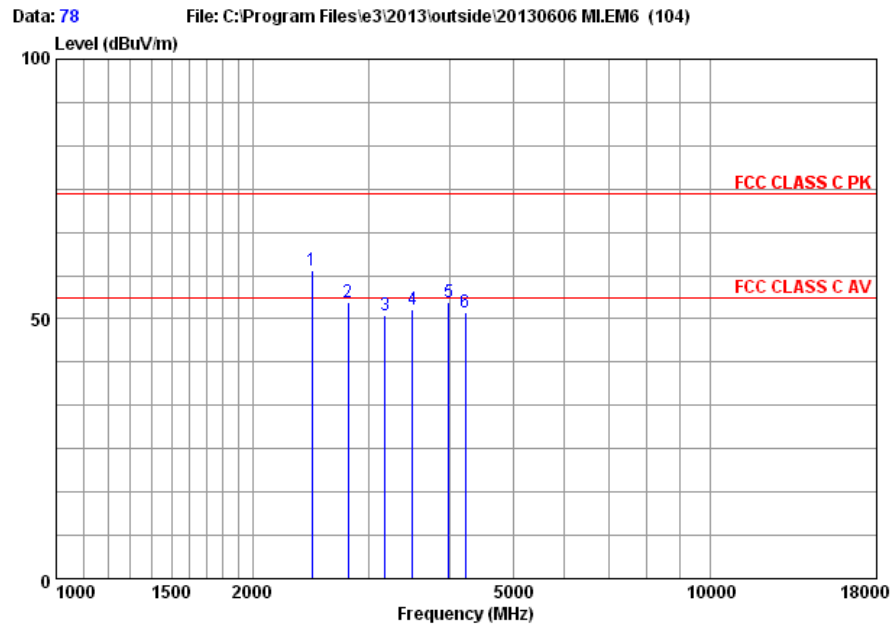
	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2449.82	27.64	57.94	51.18	25.37	4.49	74.00	-16.06	200	0 Peak
2	2633.40	28.06	49.51	42.57	25.77	4.65	74.00	-24.49	200	0 Peak
3	3650.58	30.96	49.17	39.21	26.72	5.72	74.00	-24.83	200	0 Peak
4	4218.19	31.56	48.91	36.85	26.17	6.67	74.00	-25.09	200	0 Peak
5	5471.42	33.45	50.04	36.21	26.66	7.04	74.00	-23.96	200	0 Peak
6	7807.26	35.54	52.89	35.20	26.62	8.77	74.00	-21.11	200	0 Peak





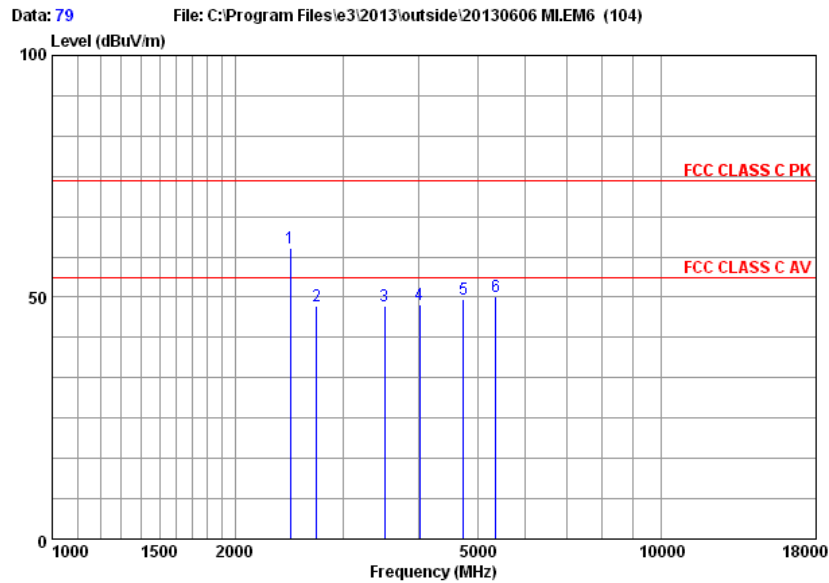
Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
RBW:1000.000KHz VBW:1000.000KHz SWT:auto  
ant : MI  
mode : H40 CH6  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2449.82	27.64	56.43	49.67	25.37	4.49	74.00	-17.57	200	0 Peak
2	2790.11	28.50	52.53	45.26	26.12	4.89	74.00	-21.47	200	0 Peak
3	3186.87	29.72	50.16	41.89	26.50	5.05	74.00	-23.84	200	0 Peak
4	3992.78	31.60	50.22	39.91	27.09	5.80	74.00	-23.78	200	0 Peak
5	4874.04	32.43	50.79	38.84	26.98	6.50	74.00	-23.21	200	0 Peak
6	6776.27	34.71	51.68	35.52	26.57	8.02	74.00	-22.32	200	0 Peak



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : H40 CH9  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2464.02	27.66	59.25	52.50	25.40	4.49	74.00	-14.75	200	0 Peak
2	2798.19	28.55	53.28	45.94	26.13	4.92	74.00	-20.72	200	0 Peak
3	3186.87	29.72	50.66	42.39	26.50	5.05	74.00	-23.34	200	0 Peak
4	3505.81	30.70	51.91	42.49	26.72	5.44	74.00	-22.09	200	0 Peak
5	3981.26	31.57	53.12	42.73	26.96	5.78	74.00	-20.88	200	0 Peak
6	4230.40	31.55	51.38	39.37	26.35	6.81	74.00	-22.62	200	0 Peak



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HF906 HORIZONTAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode : H40 CH9  
memo :

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2464.02	27.66	60.23	53.48	25.40	4.49	74.00	-13.77	200	0 Peak
2	2718.47	28.30	48.14	41.03	26.02	4.83	74.00	-25.86	200	0 Peak
3	3515.96	30.73	48.28	38.75	26.64	5.44	74.00	-25.72	200	0 Peak
4	4015.93	31.60	48.52	38.15	27.04	5.81	74.00	-25.48	200	0 Peak
5	4735.18	32.10	49.59	38.24	27.27	6.52	74.00	-24.41	200	0 Peak
6	5361.83	33.29	50.18	36.86	26.95	6.98	74.00	-23.82	200	0 Peak

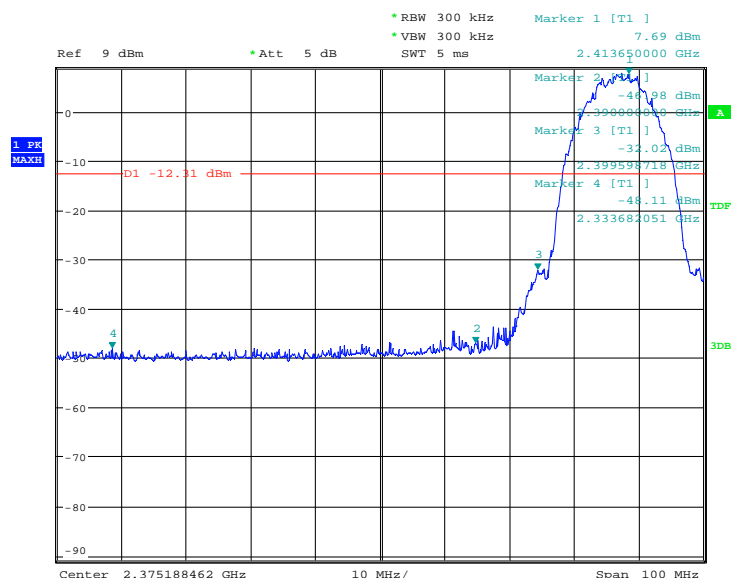
#### **4.6 Band Edge Measurements(Conducted)**

Conducted band edge measurements at 2390MHz and 2483MHz were made with the unit transmitting in the low end of the channel range and the high end closest to the restricted bands respectively. The emissions were made on the shielding room and the table lists the corrected levels of the emissions at the band edge for comparison to the limit. Table 10 shows the band edge emissions.

## Table 10 Band Edge Measurements (Conducted)

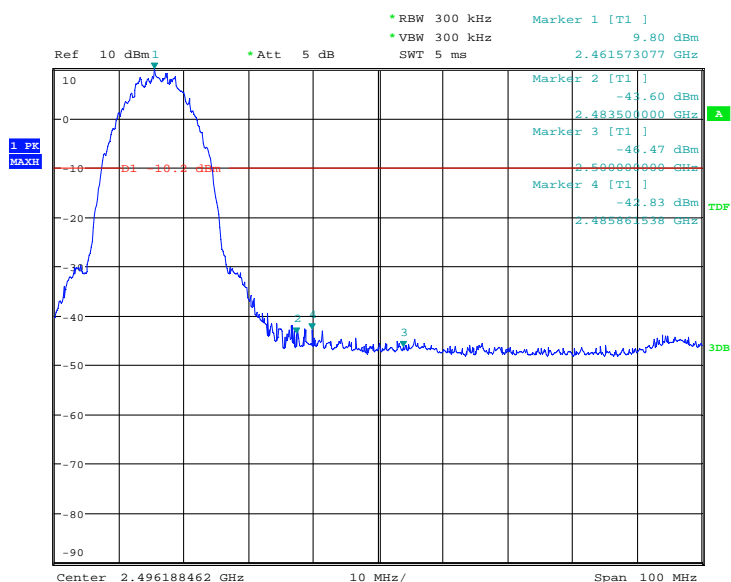
Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz



Date: 6.JUN.2013 04:07:10

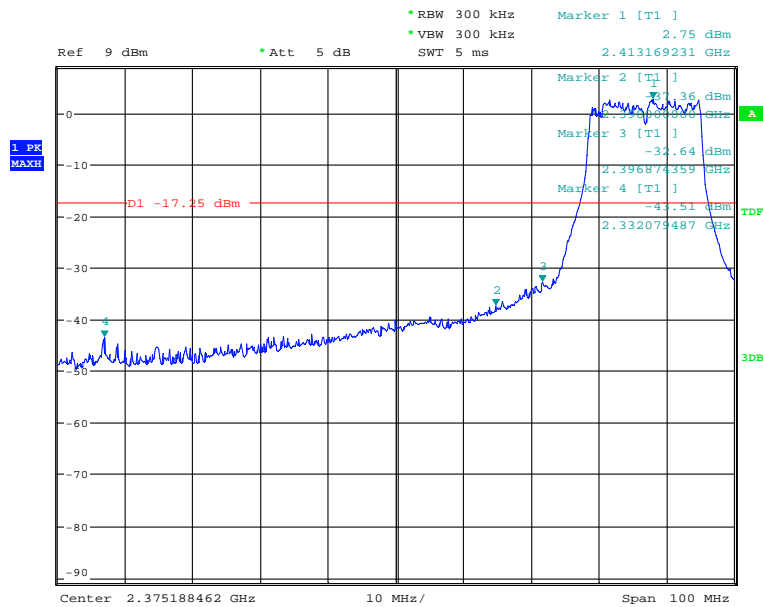
Test CH11: 2462MHz



Date: 6.JUN.2013 04:25:49

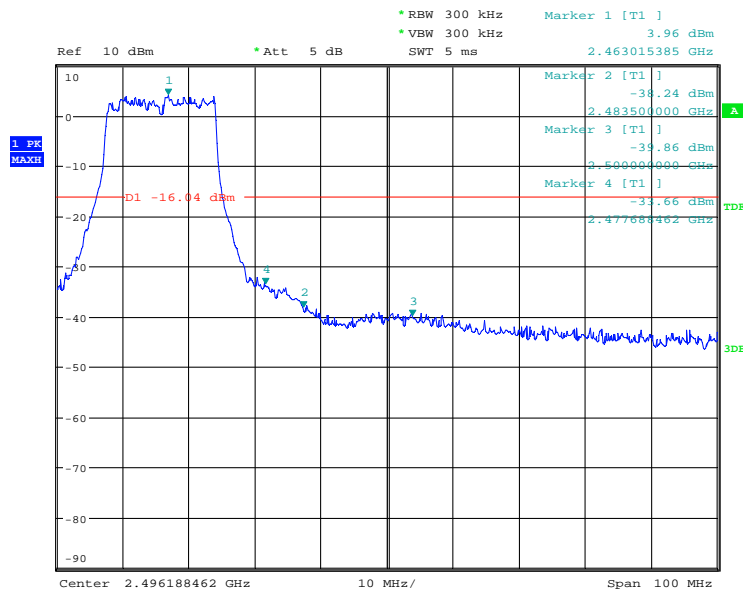
Test Mode: IEEE 802.11g TX

Test CH1: 2412MHz



Date: 6.JUN.2013 04:06:12

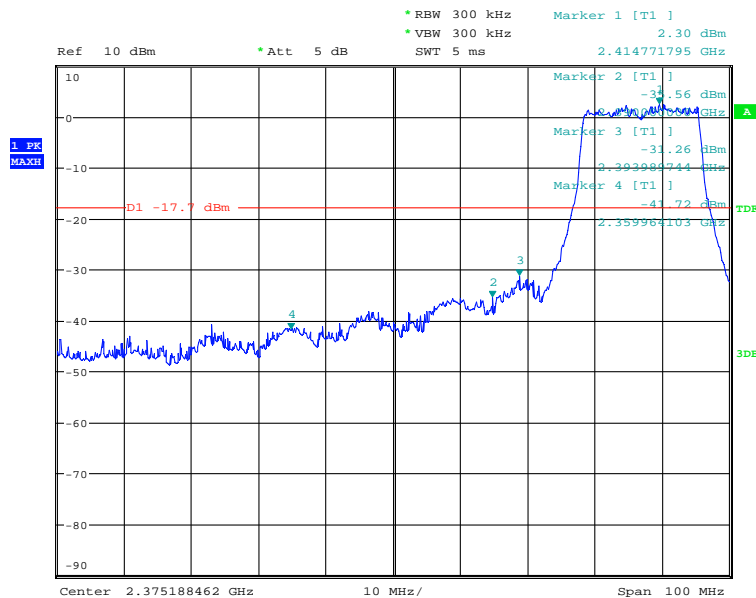
Test CH11: 2462MHz



Date: 6.JUN.2013 04:23:16

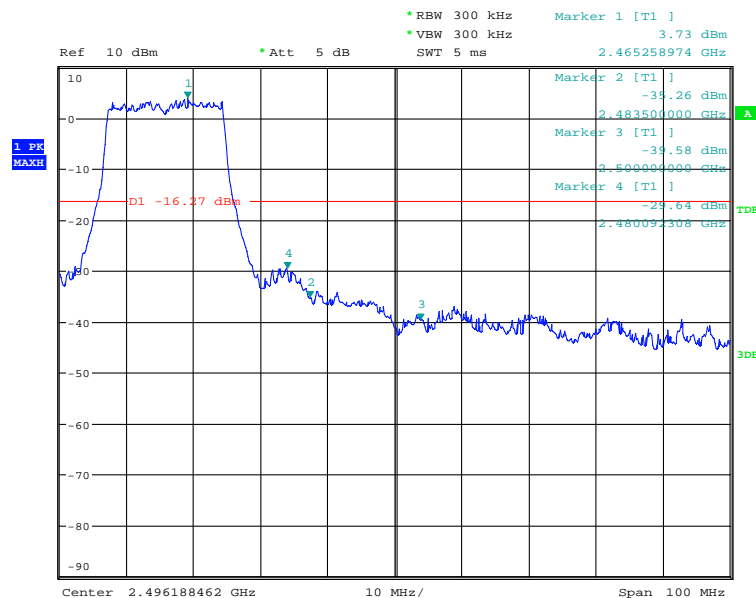
Test Mode: IEEE 802.11n HT20 TX

Test CH1: 2412MHz



Date: 6.JUN.2013 04:09:15

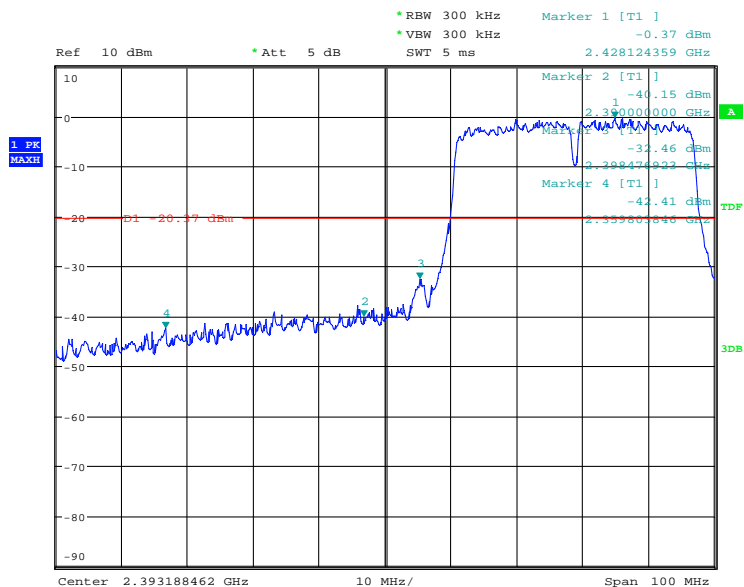
Test CH11: 2462MHz



Date: 6.JUN.2013 04:19:42

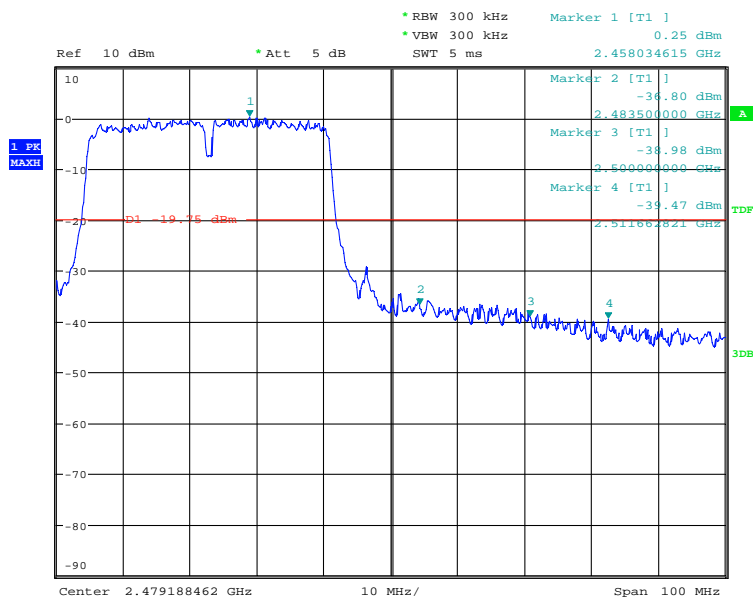
Test Mode: IEEE 802.11n HT40 TX

Test CH3: 2422MHz



Date: 6.JUN.2013 04:12:47

Test CH9: 2452MHz



Date: 6.JUN.2013 04:15:08

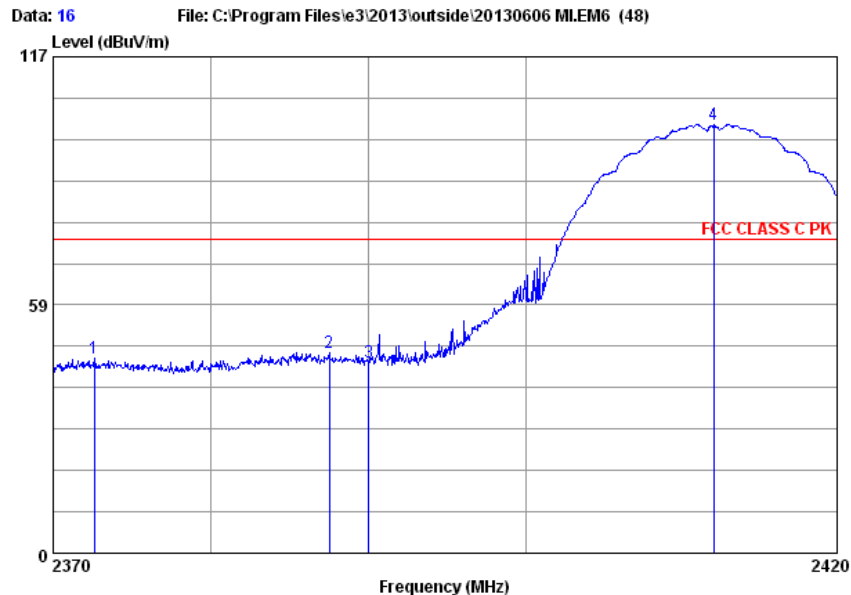


#### **4.7 Band Edge Measurements (Radiated)**

Radiated band edge measurements at 2390MHz and 2483MHz were made with the unit transmitting in the low end of the channel range and the high end closest to the restricted bands respectively. The emissions were made on the 966 Semi-Chamber. Use (resolution bandwidth (RBW) = 1 MHz, video bandwidth (VBW) = 1 MHz for peak levels and RBW = 1 MHz and VBW = 10 Hz for average levels). Table 11 shows the band edge emissions.

**Table 11 Band Edge Measurements (Radiated)**

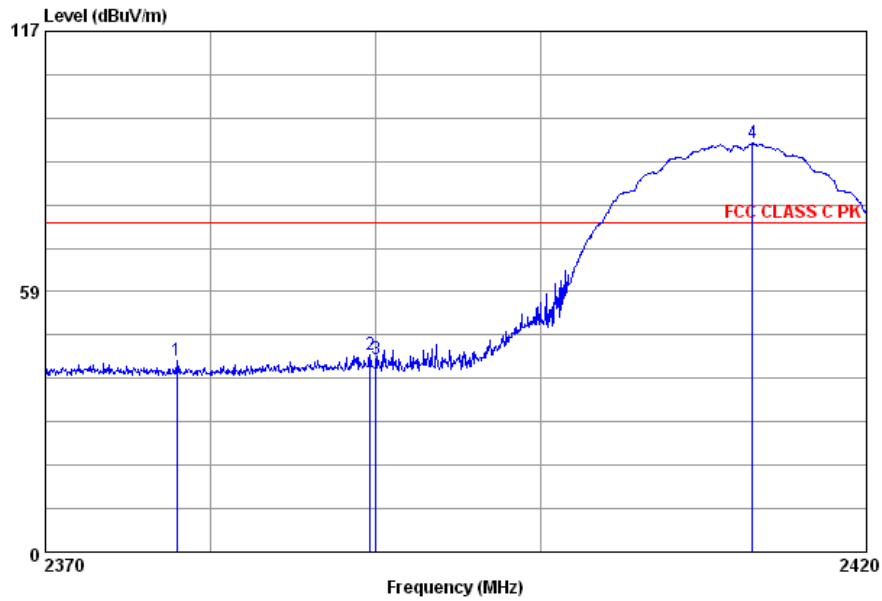
Test Mode: IEEE 802.11b TX Test CH1: 2412MHz



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
cut : MI  
mode :  
memo : B CH1 PK

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm deg
1	2372.60	27.55	45.98	52.16	40.39	6.66	74.00	-28.02	160 0 Peak
2	2387.50	27.58	47.42	53.55	40.40	6.69	74.00	-26.58	160 0 Peak
3	2390.00	27.58	44.82	50.95	40.40	6.69	74.00	-29.18	160 0 Peak
4	2412.05	27.60	101.04	107.08	40.37	6.73	74.00	27.04	160 0 Peak

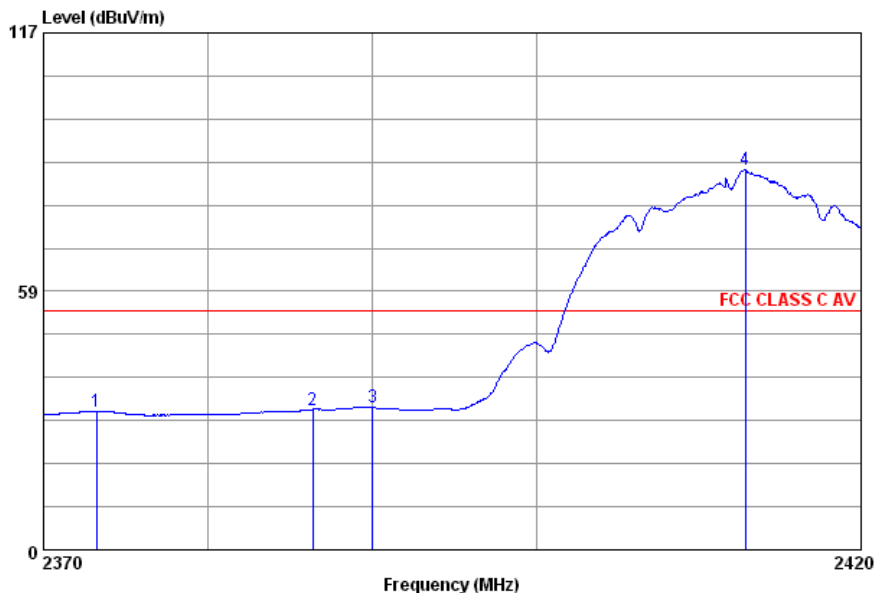
Data: 17 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode :  
memo : B CH1 PK

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2377.95	27.55	42.95	49.13	40.39	6.66	74.00	-31.05	160 0 Peak
2	2389.65	27.58	44.41	50.54	40.40	6.69	74.00	-29.59	160 0 Peak
3	2390.00	27.58	43.43	49.56	40.40	6.69	74.00	-30.57	160 0 Peak
4	2413.00	27.60	91.82	97.86	40.37	6.73	74.00	17.82	160 0 Peak

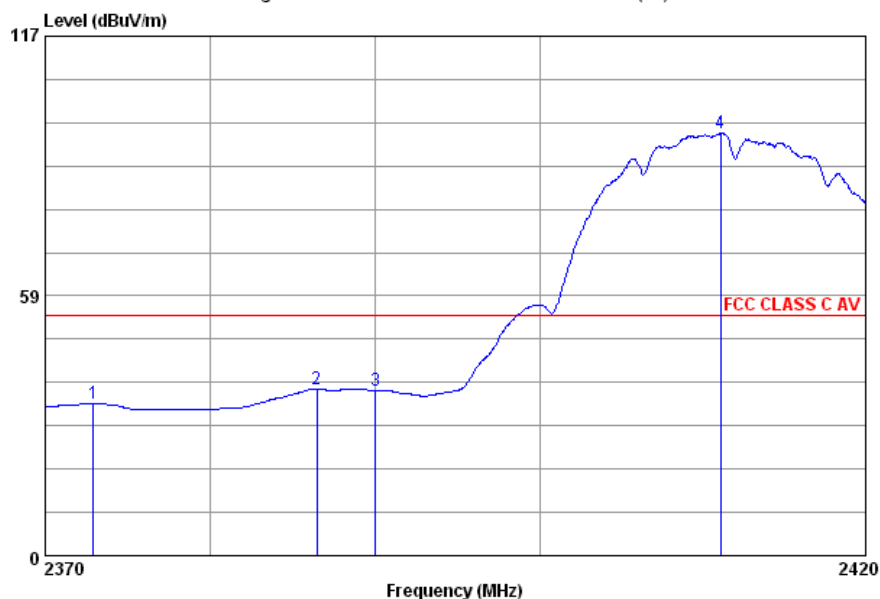
Data: 18 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HP906 VERTICAL  
 : RBW:1000.000KHz VBW:0.010KHz SWT:Auto  
 : MI  
 :  
 : B CH1 AV

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm
									deg
1	2373.20	27.55	31.26	37.44	40.39	6.66	54.00	-22.74	160
2	2386.35	27.58	31.77	37.91	40.39	6.67	54.00	-22.23	160
3	2390.00	27.58	32.14	38.27	40.40	6.69	54.00	-21.86	160
4	2412.85	27.60	85.96	92.00	40.37	6.73	54.00	31.96	160

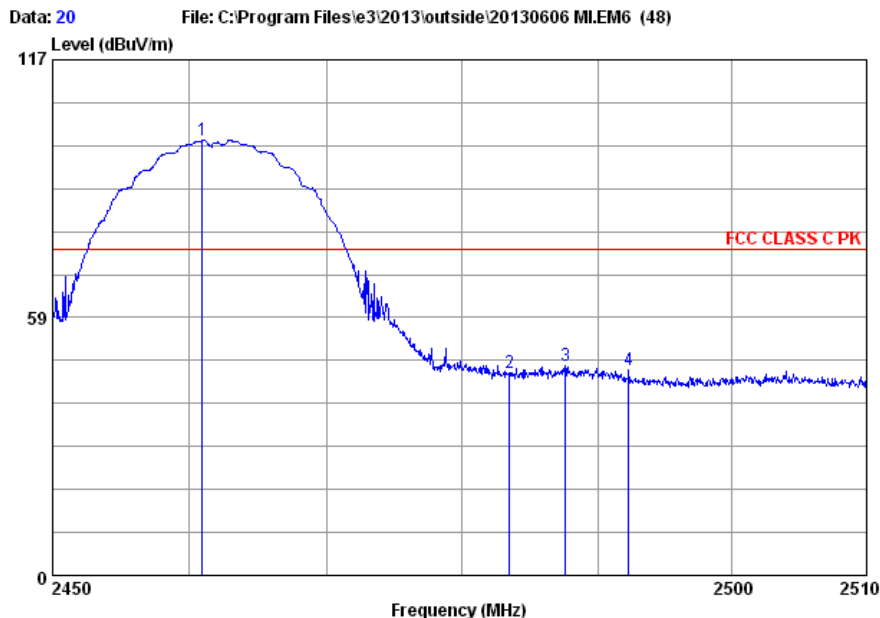
Data: 19 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HP906 HORIZONTAL  
: RBW:1000.000KHz VBW:0.010KHz SWT:Auto  
ant : MI  
mode :  
memo : B CH1 AV

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	
1	2372.90	27.55	34.32	40.50	40.39	6.66	54.00	-19.68	160 0 Average
2	2386.45	27.58	37.61	43.74	40.40	6.69	54.00	-16.39	160 0 Average
3	2390.00	27.58	37.19	43.32	40.40	6.69	54.00	-16.81	160 0 Average
4	2411.10	27.60	95.12	101.16	40.37	6.73	54.00	41.12	160 0 Average

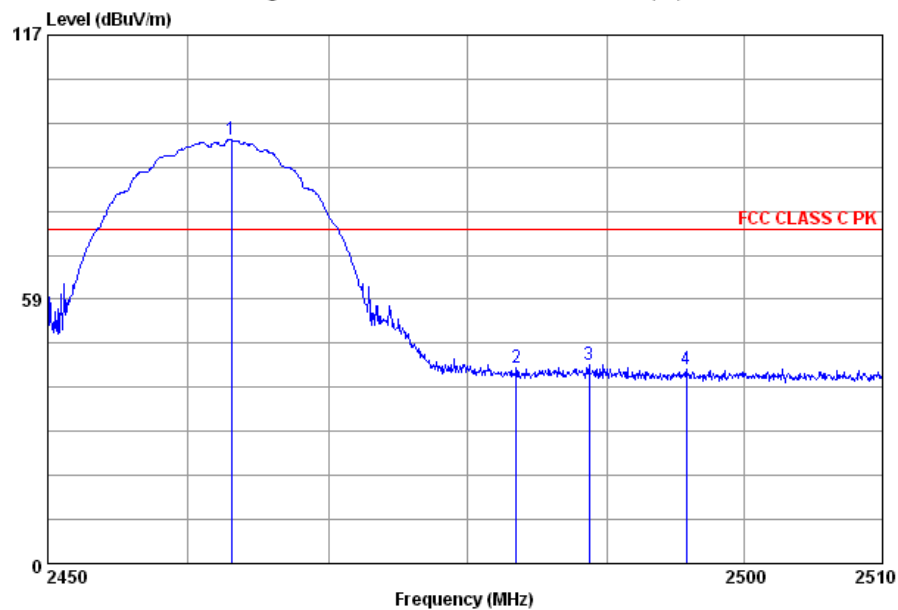
Test CH11: 2462MHz



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
: REW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ent : MI  
mode :  
memo : B CH11 PK

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	
1	2460.92	27.66	98.84	104.23	39.88	6.83	74.00	24.84	160 0 Peak
2	2483.50	27.68	46.03	51.15	39.67	6.87	74.00	-27.97	160 0 Peak
3	2487.62	27.70	47.45	52.55	39.67	6.87	74.00	-26.55	160 0 Peak
4	2492.30	27.70	46.67	51.70	39.62	6.89	74.00	-27.33	160 0 Peak

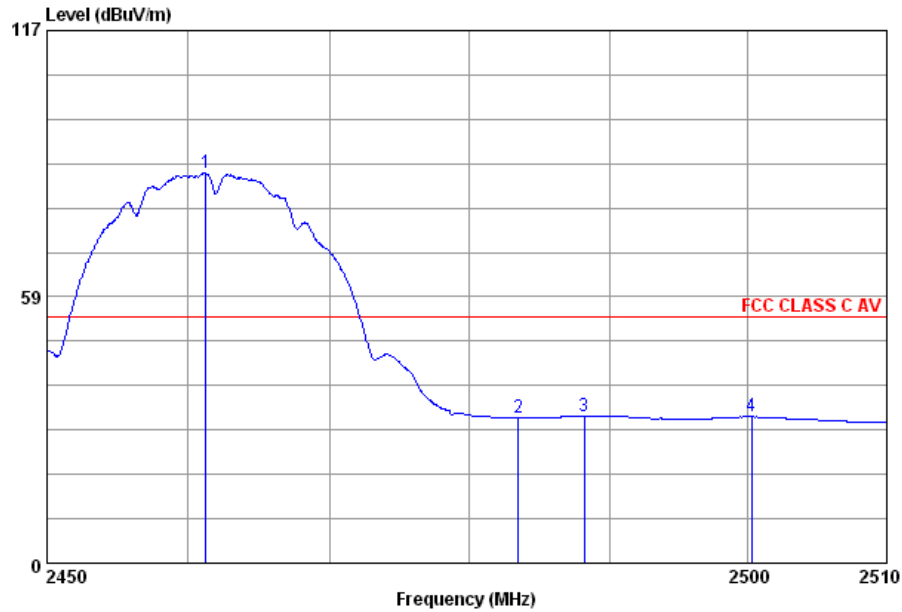
Data: 21 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HF906 VERTICAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode :  
memo : B CH11 PK

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2463.08	27.66	93.87	99.26	39.88	6.83	74.00	19.87	160	0 Peak
2	2483.48	27.68	43.22	48.34	39.67	6.87	74.00	-30.78	160	0 Peak
3	2488.76	27.70	44.07	49.10	39.62	6.89	74.00	-29.93	160	0 Peak
4	2495.78	27.70	43.06	48.09	39.62	6.89	74.00	-30.94	160	0 Peak

Data: 22 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (48)

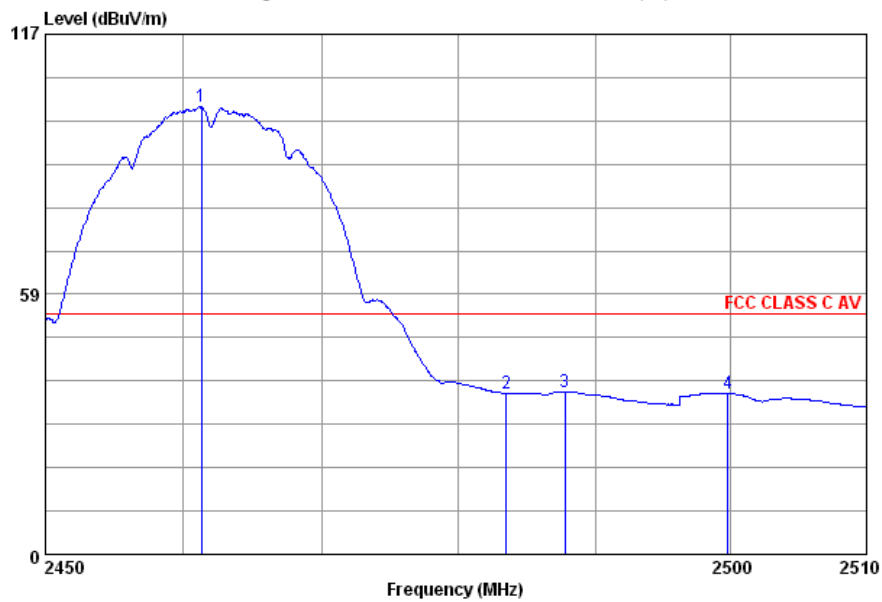


Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HP906 VERTICAL  
RBW:1000.000KHz VBW:0.010KHz SWT:Auto  
ant : MI  
mode :  
memo : B CH11 AV

		Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit			
	MHz	dB/m	dBUV/m	dBuV	dB	dB	dBUV/m	dB	cm	deg	
1	2461.22	27.66	85.73	91.12	39.88	6.83	54.00	31.73	160	0	Average
2	2483.50	27.68	31.84	36.96	39.67	6.87	54.00	-22.16	160	0	Average
3	2488.22	27.70	32.40	37.50	39.67	6.87	54.00	-21.60	160	0	Average
4	2500.22	27.70	32.15	37.10	39.55	6.90	54.00	-21.85	160	0	Average



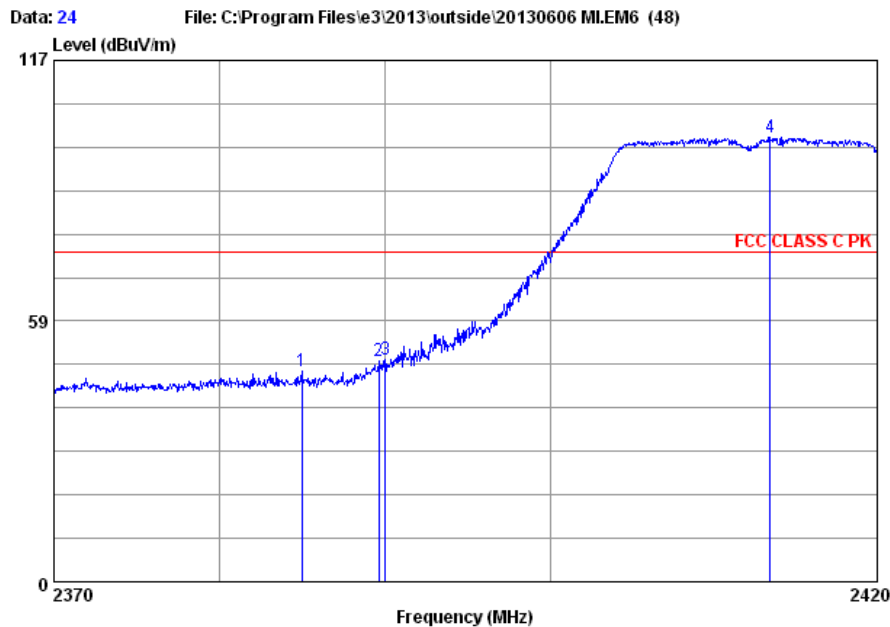
Data: 23 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HF906 HORIZONTAL  
RBW:1000.000KHz VBW:0.010KHz SWT:Auto  
cut : MI  
mode :  
memo : B CH11 AV

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2461.28	27.66	100.63	106.02	39.88	6.83	54.00	46.63	160 0 Average
2	2483.50	27.68	36.30	41.42	39.67	6.87	54.00	-17.70	160 0 Average
3	2487.80	27.70	36.60	41.70	39.67	6.87	54.00	-17.40	160 0 Average
4	2499.74	27.70	36.26	41.21	39.55	6.90	54.00	-17.74	160 0 Average

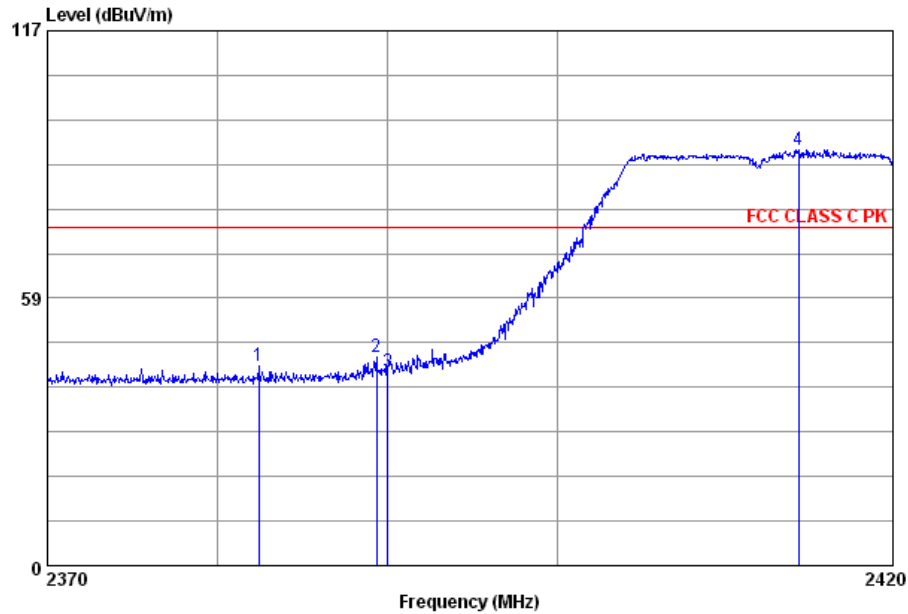
Test Mode: IEEE 802.11g TX Test CH1: 2412MHz



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ent : MI  
mode :  
memo : G CH1 PK

		Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit			Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg	
1	2384.95	27.55	47.42	53.59	40.39	6.67	74.00	-26.58	160	0	Peak
2	2389.60	27.58	49.66	55.79	40.40	6.69	74.00	-24.34	160	0	Peak
3	2390.00	27.58	49.78	55.91	40.40	6.69	74.00	-24.22	160	0	Peak
4	2413.45	27.60	99.74	105.78	40.37	6.73	74.00	25.74	160	0	Peak

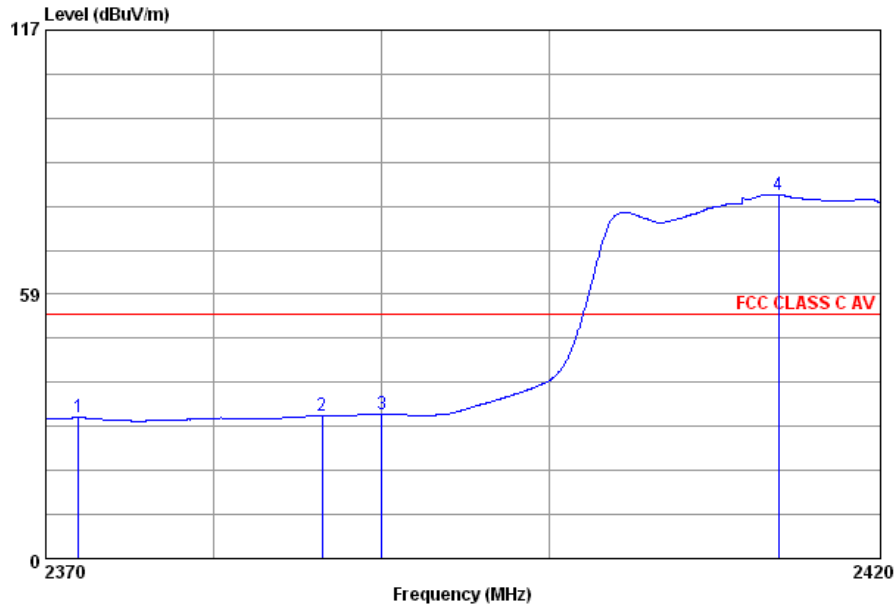
Data: 25 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HF906 VERTICAL  
 : RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode :  
memo : G CH1 PK

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2382.40	27.55	43.71	49.88	40.39	6.67	74.00	-30.29	160	0 Peak
2	2389.35	27.58	45.74	51.87	40.40	6.69	74.00	-28.26	160	0 Peak
3	2390.00	27.58	42.50	48.63	40.40	6.69	74.00	-31.50	160	0 Peak
4	2414.35	27.60	90.88	96.92	40.37	6.73	74.00	16.88	160	0 Peak

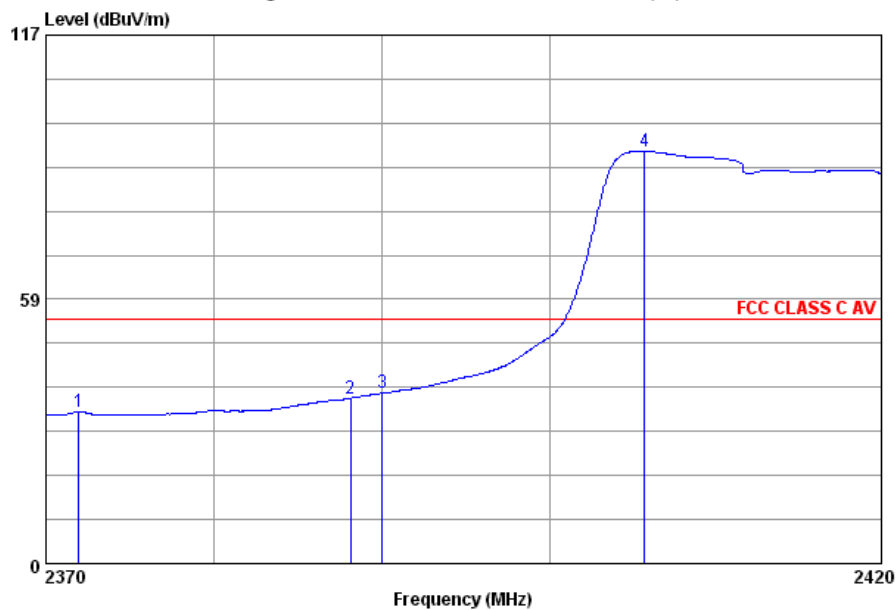
Data: 26 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HF906 VERTICAL  
: RBW:1000.000KHz VBW:0.010KHz SWT:Auto  
ant : MI  
mode :  
memo : G CH1 AV

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2371.95	27.55	31.28	37.48	40.39	6.64	54.00	-22.72	160	0 Average
2	2386.45	27.58	31.55	37.68	40.40	6.69	54.00	-22.45	160	0 Average
3	2390.00	27.58	31.93	38.06	40.40	6.69	54.00	-22.07	160	0 Average
4	2413.85	27.60	80.51	86.55	40.37	6.73	54.00	26.51	160	0 Average

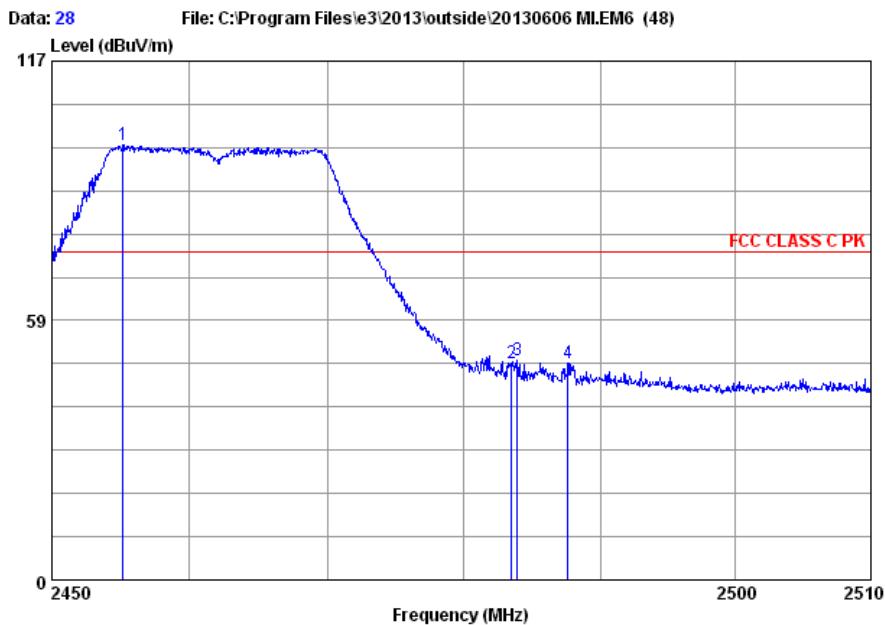
Data: 27 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HF906 HORIZONTAL  
RBW:1000.000KHz VBW:0.010KHz SWT:Auto  
ant : MI  
mode :  
memo : G CH1 AV

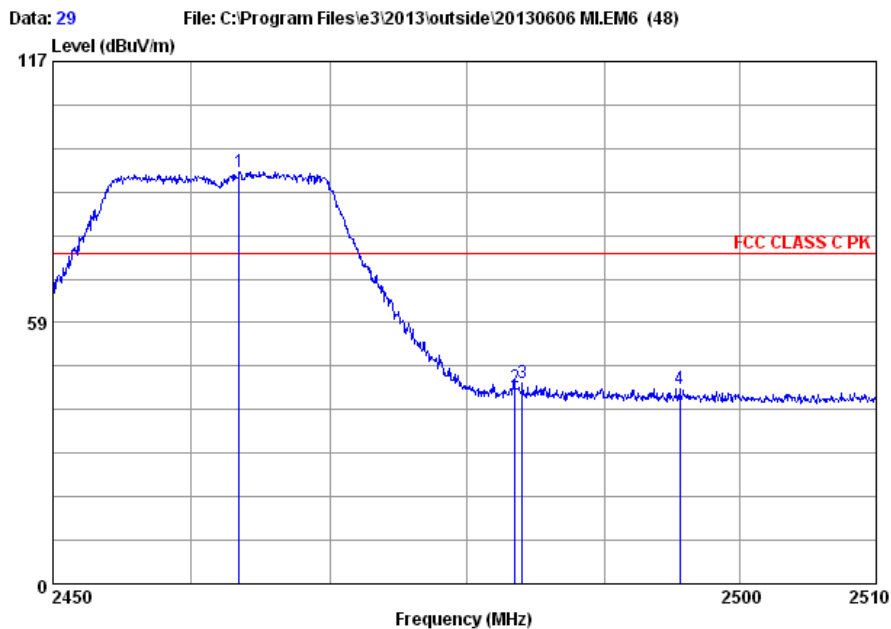
	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	
1	2371.95	27.55	33.66	39.86	40.39	6.64	54.00	-20.34	160 0 Average
2	2388.10	27.58	36.59	42.72	40.40	6.69	54.00	-17.41	160 0 Average
3	2390.00	27.58	37.72	43.85	40.40	6.69	54.00	-16.28	160 0 Average
4	2405.70	27.60	91.30	97.40	40.41	6.71	54.00	37.30	160 0 Average

Test CH11: 2462MHz



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode :  
memo : G CH11 PK

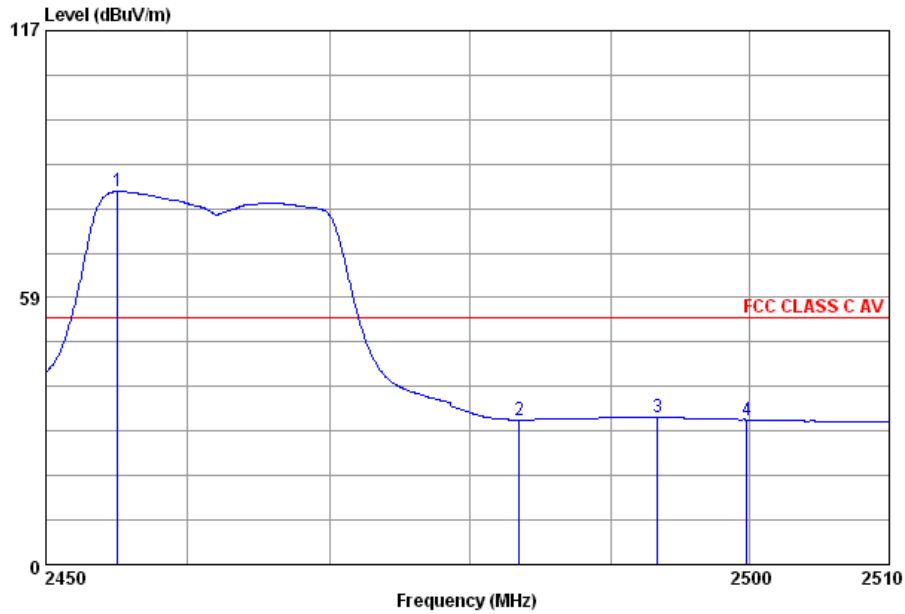
	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Loss	Line	Limit			
	MHz	dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	cm	deg	
1	2455.16	27.66	98.06	103.56	39.97	6.81	74.00	24.06	160	0 Peak
2	2483.50	27.68	48.76	53.88	39.67	6.87	74.00	-25.24	160	0 Peak
3	2483.90	27.68	49.53	54.65	39.67	6.87	74.00	-24.47	160	0 Peak
4	2487.62	27.70	49.02	54.12	39.67	6.87	74.00	-24.98	160	0 Peak



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ext : MI  
mode :  
memo : G CH11 PK

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2463.44	27.66	92.25	97.64	39.88	6.83	74.00	18.25	160	0 Peak
2	2483.48	27.68	44.08	49.20	39.67	6.87	74.00	-29.92	160	0 Peak
3	2484.02	27.68	44.97	50.09	39.67	6.87	74.00	-29.03	160	0 Peak
4	2495.54	27.70	43.79	48.82	39.62	6.89	74.00	-30.21	160	0 Peak

Data: 30 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)

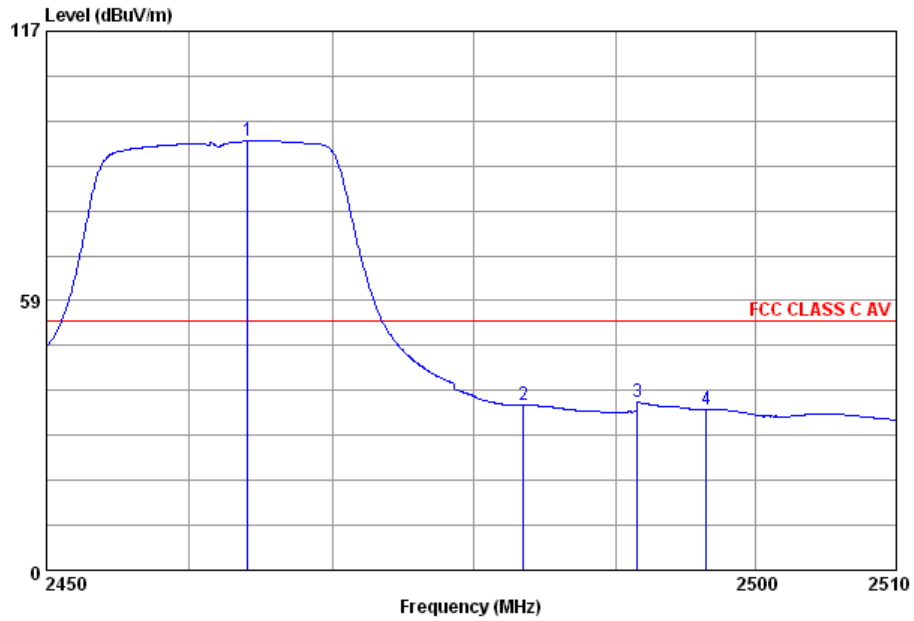


Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HP906 VERTICAL  
: RBW:1000.000KHz VBW:0.010KHz SWT:Auto  
ant : MI  
mode :  
memo : G CH11 AV

	Antenna		Read		Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit			
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg	
1	2455.04	27.66	81.72	87.22	39.97	6.81	54.00	27.72	160	0	Average
2	2483.48	27.68	31.68	36.80	39.67	6.87	54.00	-22.32	160	0	Average
3	2493.38	27.70	32.40	37.43	39.62	6.89	54.00	-21.60	160	0	Average
4	2499.74	27.70	31.74	36.69	39.55	6.90	54.00	-22.26	160	0	Average



Data: 31 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)

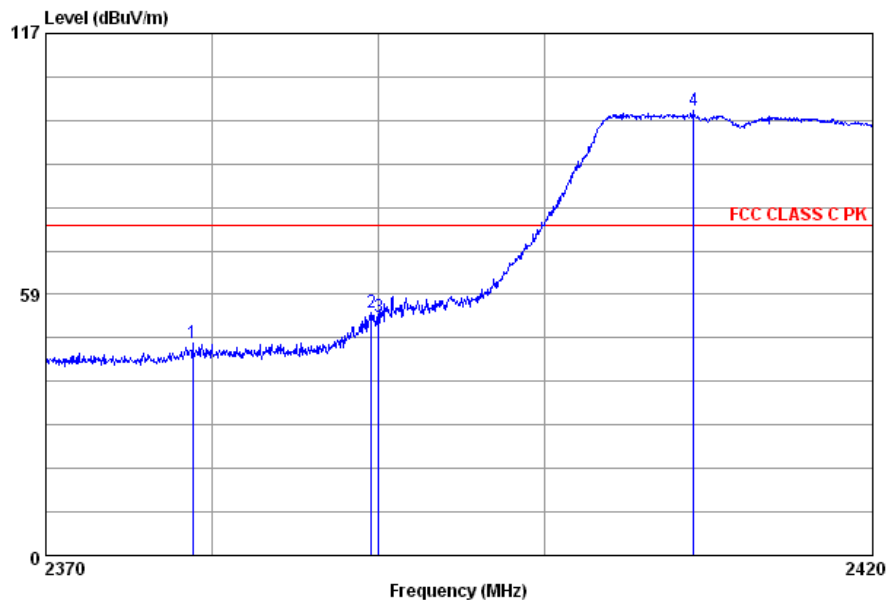


Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HF906 HORIZONTAL  
RBW:1000.000KHz VBW:0.010KHz SWT:Auto  
ant : MI  
mode :  
memo : G CH11 AV

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Loss	Line	Limit			Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	cm	deg	
1	2464.10	27.66	93.22	98.61	39.88	6.83	54.00	39.22	160	0 Average
2	2483.48	27.68	35.86	40.98	39.67	6.87	54.00	-18.14	160	0 Average
3	2491.58	27.70	36.47	41.50	39.62	6.89	54.00	-17.53	160	0 Average
4	2496.44	27.70	34.98	39.93	39.55	6.90	54.00	-19.02	160	0 Average

Test Mode: IEEE 802.11n HT20 TX Test CH1: 2412MHz

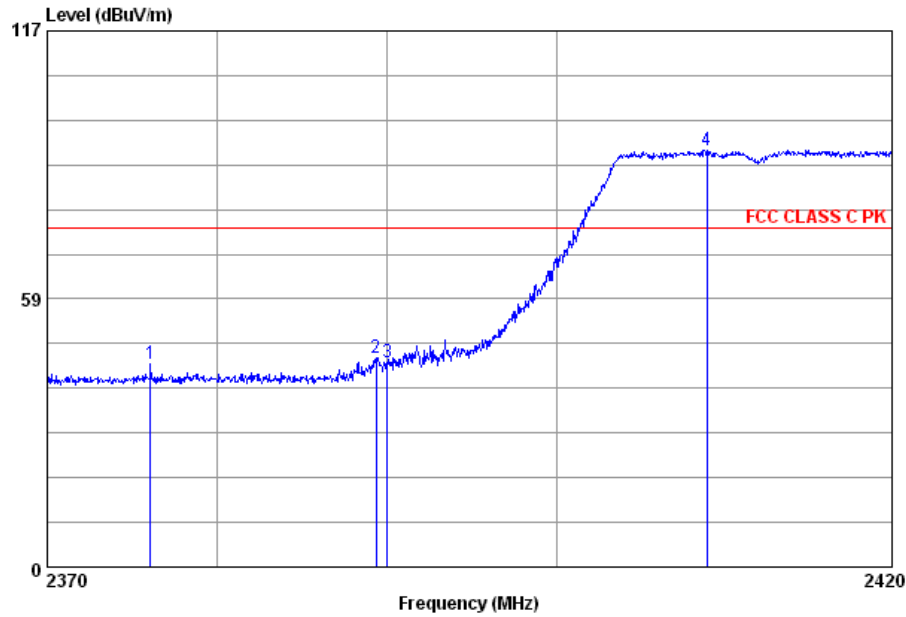
Data: 32 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HF906 HORIZONTAL  
RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode :  
memo : N HT20 CH1 PK

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2378.80	27.55	47.71	53.89	40.39	6.66	74.00	-26.29	160	0 Peak
2	2389.55	27.58	54.54	60.67	40.40	6.69	74.00	-19.46	160	0 Peak
3	2390.00	27.58	53.57	59.70	40.40	6.69	74.00	-20.43	160	0 Peak
4	2409.10	27.60	99.60	105.64	40.37	6.73	74.00	25.60	160	0 Peak

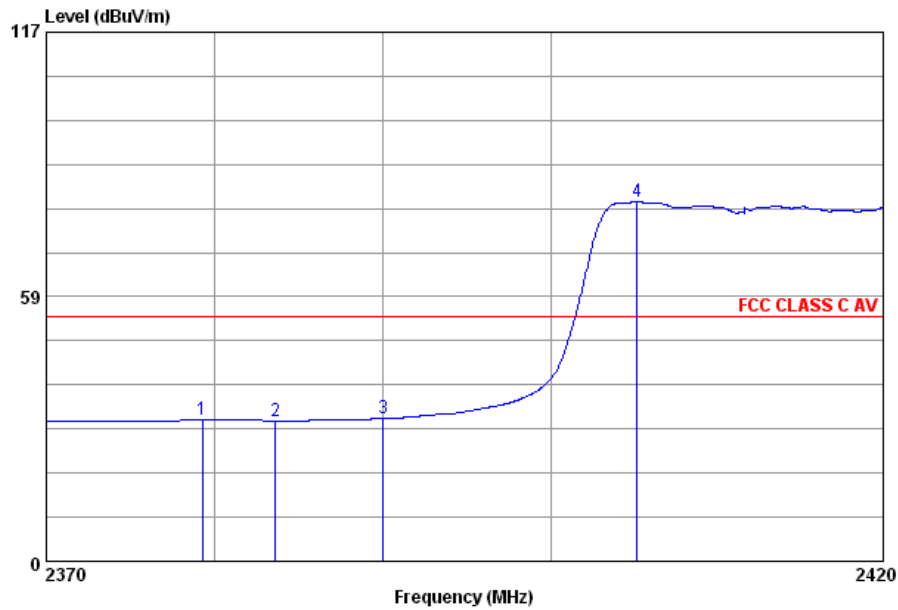
Data: 33 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode :  
memo : N HT20 CH1 PK

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Loss	Line	Limit			Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	cm	deg	
1	2376.05	27.55	44.39	50.57	40.39	6.66	74.00	-29.61	160	0 Peak
2	2389.35	27.58	45.60	51.73	40.40	6.69	74.00	-28.40	160	0 Peak
3	2390.00	27.58	44.52	50.65	40.40	6.69	74.00	-29.48	160	0 Peak
4	2408.95	27.60	90.91	96.95	40.37	6.73	74.00	16.91	160	0 Peak

Data: 34 File: C:\Program Files\le3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER

Condition : FCC CLASS C AV 3m HP906 VERTICAL

: RBW:1000.000KHz VBW:0.010KHz SWT:Auto

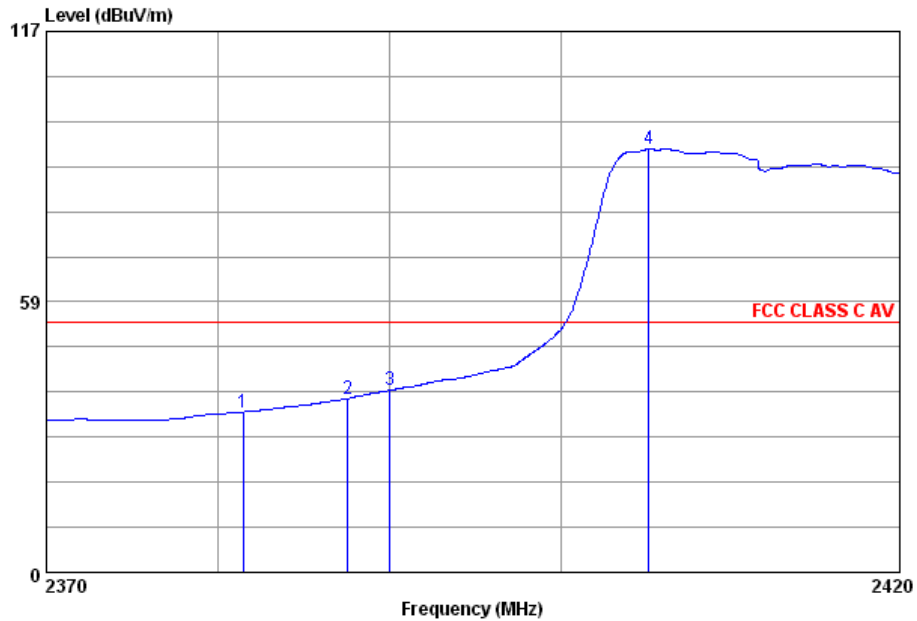
ant : MI

mode :

memo : N HT20 CH1 AV

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm
1	2379.25	27.55	31.38	37.55	40.39	6.67	54.00	-22.62	160
2	2383.60	27.55	31.07	37.24	40.39	6.67	54.00	-22.93	160
3	2390.00	27.58	31.57	37.70	40.40	6.69	54.00	-22.43	160
4	2405.20	27.60	79.50	85.60	40.41	6.71	54.00	25.50	160

Data: 35 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (48)

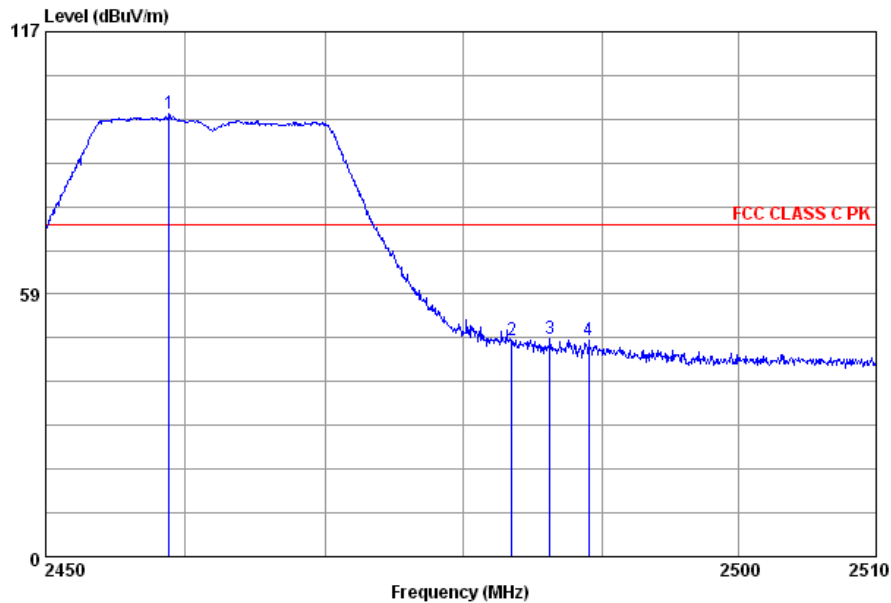


Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HF906 HORIZONTAL  
RBW:1000.000KHz VEW:0.010KHz SWT:Auto  
ant : MI  
mode :  
memo : N HT20 CH1 AV

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
Freq	Factor	Level	Level	Factor	Loss	Line	Limit		Remark
MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2381.45	27.55	34.70	40.87	40.39	6.67	54.00	-19.30	160 0 Average
2	2387.55	27.58	37.58	43.71	40.40	6.69	54.00	-16.42	160 0 Average
3	2390.00	27.58	39.38	45.51	40.40	6.69	54.00	-14.62	160 0 Average
4	2405.20	27.60	91.51	97.61	40.41	6.71	54.00	37.51	160 0 Average

Test Mode: IEEE 802.11n HT20 TX Test CH11: 2462MHz

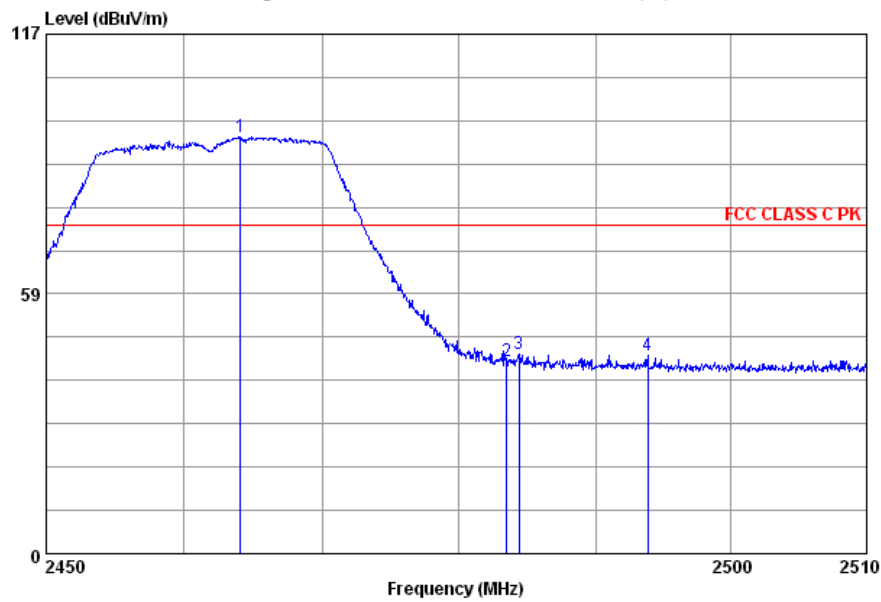
Data: 36 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode :  
memo : N HT20 CH11 PK

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2458.82	27.66	98.68	104.18	39.97	6.81	74.00	24.68	160	0 Peak
2	2483.50	27.68	48.34	53.46	39.67	6.87	74.00	-25.66	160	0 Peak
3	2486.24	27.68	48.53	53.65	39.67	6.87	74.00	-25.47	160	0 Peak
4	2489.06	27.70	48.25	53.28	39.62	6.89	74.00	-25.75	160	0 Peak

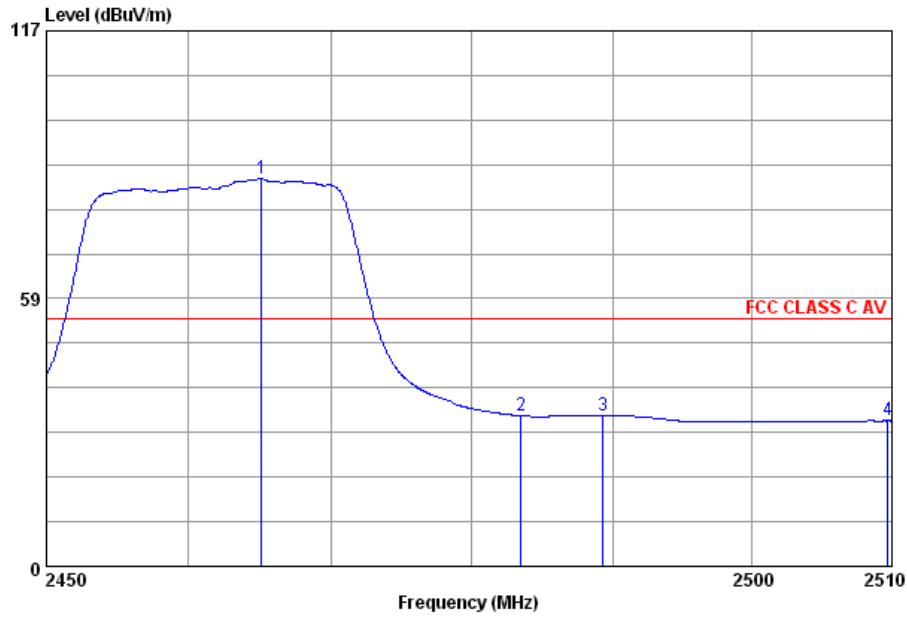
Data: 37 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode :  
memo : N HT20 CH11 PK

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	
1	2464.10	27.66	93.74	99.13	39.88	6.83	74.00	19.74	160 0 Peak
2	2483.50	27.68	43.50	48.62	39.67	6.87	74.00	-30.50	160 0 Peak
3	2484.38	27.68	44.83	49.95	39.67	6.87	74.00	-29.17	160 0 Peak
4	2493.86	27.70	44.60	49.63	39.62	6.89	74.00	-29.40	160 0 Peak

Data: 38 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)

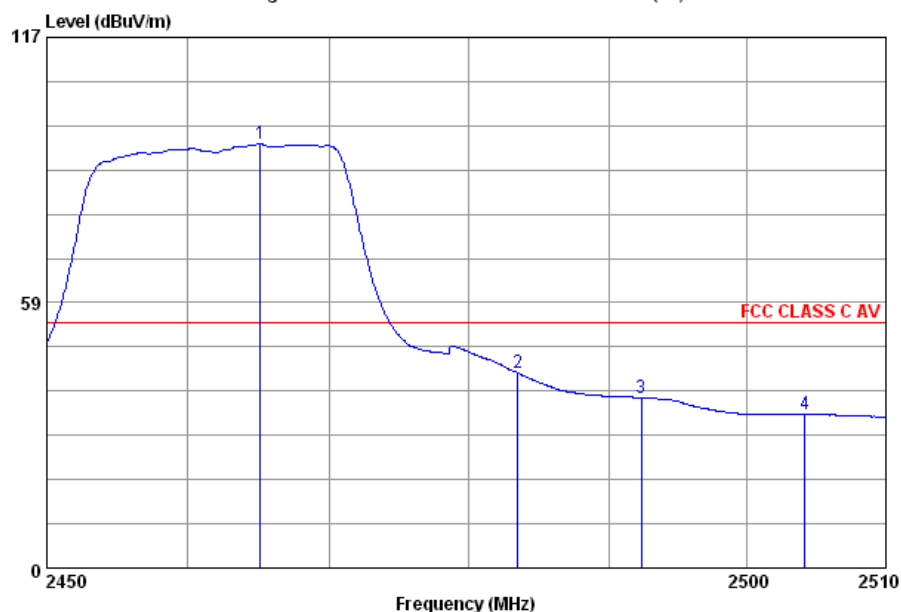


Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HP906 VERTICAL  
: RBW:1000.000KHz VBW:0.010KHz SWT:Auto  
ant : MI  
mode :  
memo : N HT20 CH11 AV

	Antenna		Read		Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit			
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg	
1	2465.12	27.66	84.63	90.02	39.88	6.83	54.00	30.63	160	0	Average
2	2483.50	27.68	32.90	38.02	39.67	6.87	54.00	-21.10	160	0	Average
3	2489.36	27.70	33.03	38.06	39.62	6.89	54.00	-20.97	160	0	Average
4	2509.70	27.74	31.81	36.74	39.60	6.93	54.00	-22.19	160	0	Average



Data: 39 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)

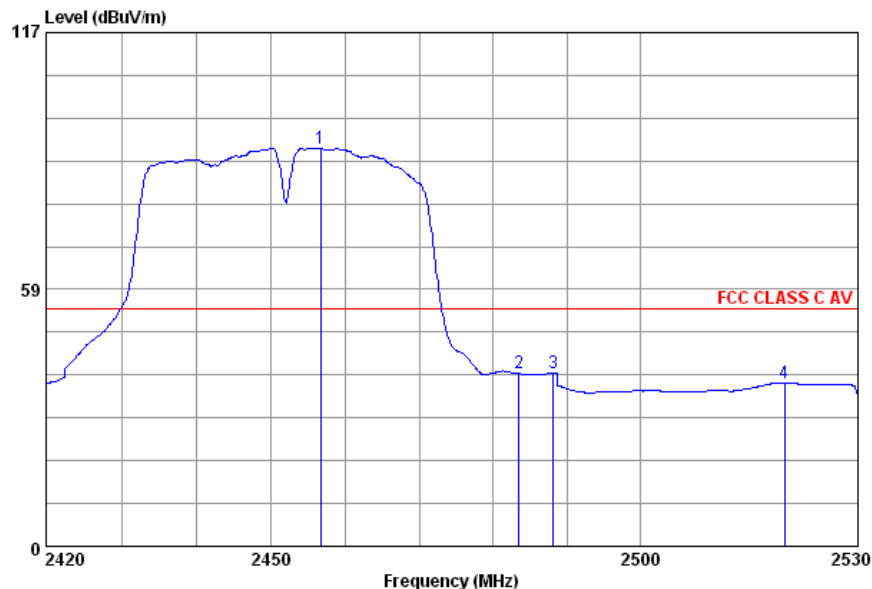


Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HF906 HORIZONTAL  
: RBW:1000.000KHz VBW:0.010KHz SWT:Auto  
cut : MI  
mode :  
memo : N HT20 CH11 AV

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm
1	2465.12	27.66	93.44	98.83	39.88	6.83	54.00	39.44	160
2	2483.50	27.68	43.03	48.15	39.67	6.87	54.00	-10.97	160
3	2492.36	27.70	37.56	42.59	39.62	6.89	54.00	-16.44	160
4	2504.12	27.70	33.86	38.83	39.60	6.93	54.00	-20.14	160

Test Mode: IEEE 802.11n HT40 TX Test CH9: 2452MHz

Data: 41 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER

Condition : FCC CLASS C AV 3m HP906 HORIZONTAL  
: REW:1000.000KHz VBW:0.010KHz SWT:Auto

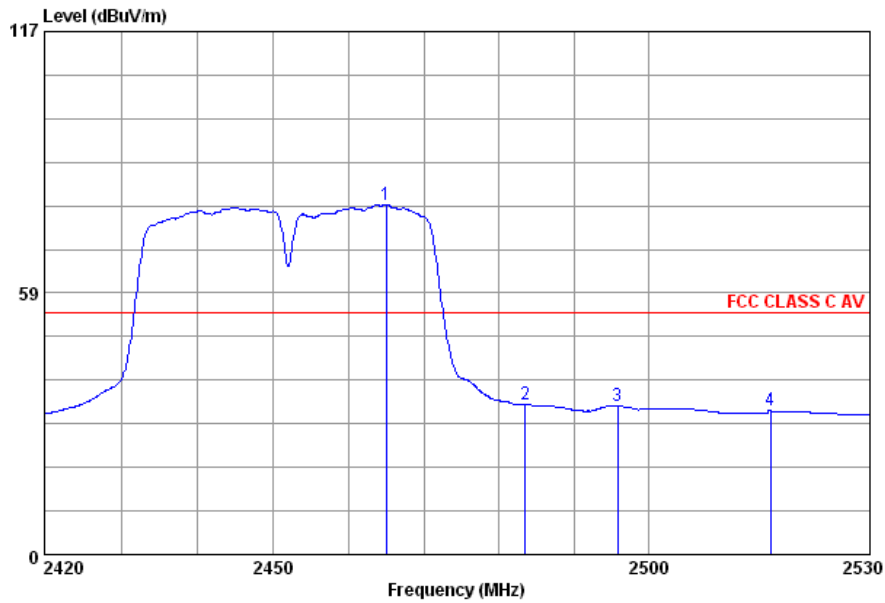
cut : MI

mode :

memo : N HT40 CH9 AV

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	
1	2456.63	27.66	90.68	96.18	39.97	6.81	54.00	36.68	160 0 Average
2	2483.47	27.68	39.34	44.46	39.67	6.87	54.00	-14.66	160 0 Average
3	2488.20	27.70	39.39	44.49	39.67	6.87	54.00	-14.61	160 0 Average
4	2519.88	27.74	37.20	42.28	39.80	6.98	54.00	-16.80	160 0 Average

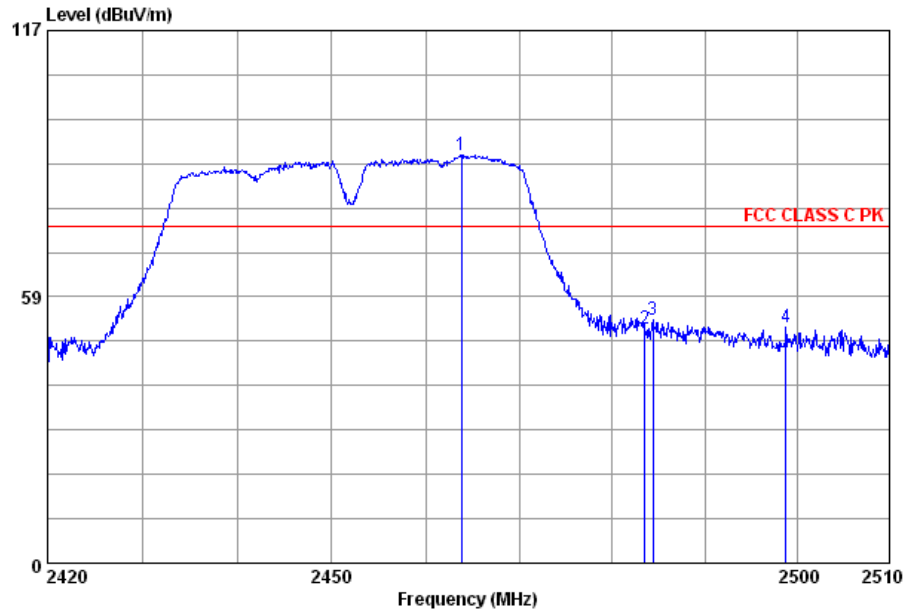
Data: 42 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HP906 VERTICAL  
 : REW:1000.000KHz VBW:0.010KHz SWT:Auto  
ent : MI  
mode :  
memo : N HT40 CH9 AV

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm deg
1	2464.99	27.66	78.19	83.58	39.88	6.83	54.00	24.19	160 0 Average
2	2483.50	27.68	33.64	38.76	39.67	6.87	54.00	-20.36	160 0 Average
3	2495.90	27.70	33.30	38.33	39.62	6.89	54.00	-20.70	160 0 Average
4	2516.47	27.74	32.12	37.13	39.70	6.95	54.00	-21.88	160 0 Average

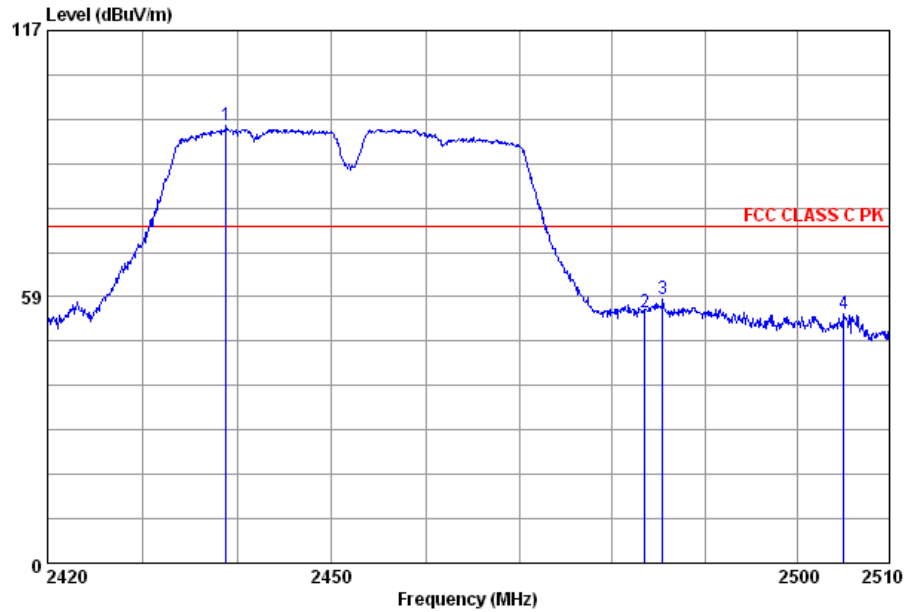
Data: 43 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode :  
memo : N HT40 CH9 PK

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz		dB/m	dBuV/m	dBuV	dB	dBuV/m	dB	
1	2463.83	27.66	89.55	94.94	39.88	6.83	74.00	15.55	160 0 Peak
2	2483.50	27.68	51.46	56.58	39.67	6.87	74.00	-22.54	160 0 Peak
3	2484.35	27.68	53.39	58.51	39.67	6.87	74.00	-20.61	160 0 Peak
4	2498.75	27.70	51.71	56.66	39.55	6.90	74.00	-22.29	160 0 Peak

Data: 44 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (48)

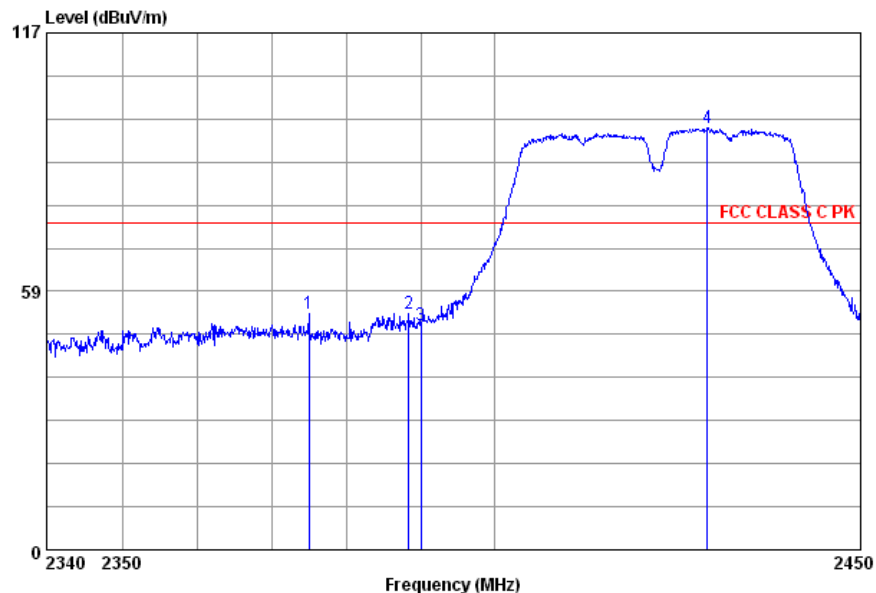


Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode :  
memo : N HT40 CH9 PK

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	
1	2438.81	27.64	96.10	101.79	40.12	6.79	74.00	22.10	160 0 Peak
2	2483.50	27.68	55.04	60.16	39.67	6.87	74.00	-18.96	160 0 Peak
3	2485.43	27.68	57.86	62.98	39.67	6.87	74.00	-16.14	160 0 Peak
4	2505.05	27.74	54.80	59.73	39.60	6.93	74.00	-19.20	160 0 Peak

Test Mode: IEEE 802.11n HT40 TX Test CH3: 2422MHz

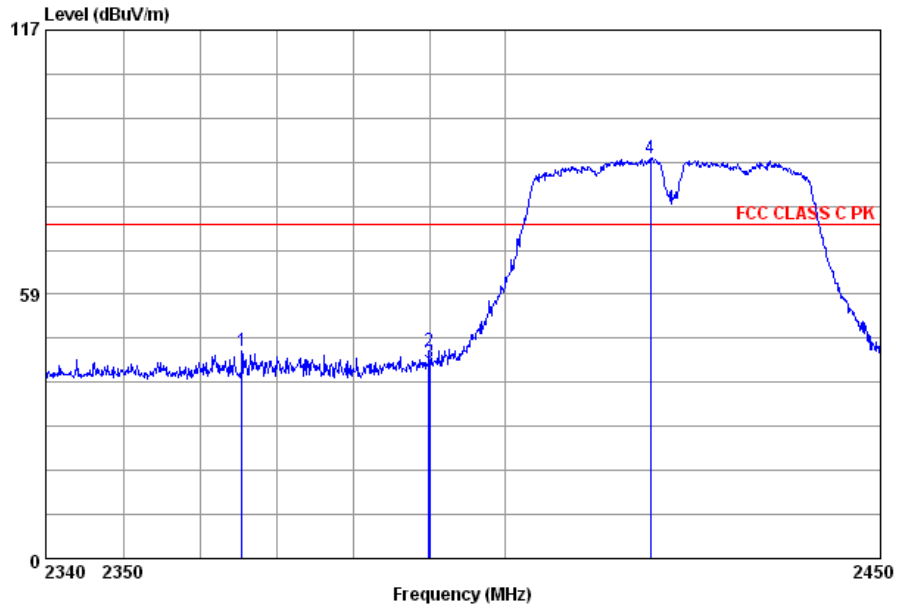
Data: 45 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 HORIZONTAL  
RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode :  
memo : N HT40 CH3 PK

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm
									deg
1	2374.87	27.55	53.43	59.61	40.39	6.66	74.00	-20.57	160
2	2388.29	27.58	53.39	59.52	40.40	6.69	74.00	-20.61	160
3	2390.00	27.58	50.74	56.87	40.40	6.69	74.00	-23.26	160
4	2428.88	27.62	95.52	101.39	40.25	6.76	74.00	21.52	160

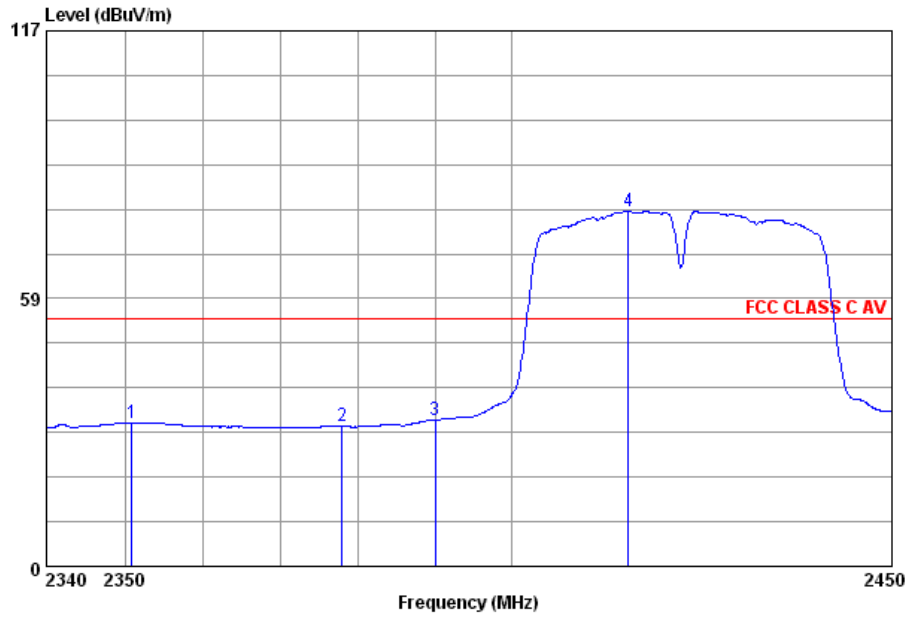
Data: 46 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C PK 3m HP906 VERTICAL  
: RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
ant : MI  
mode :  
memo : N HT40 CH3 PK

	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm deg
1	2365.41	27.53	45.82	52.04	40.39	6.64	74.00	-28.18	160 0 Peak
2	2389.83	27.58	45.81	51.94	40.40	6.69	74.00	-28.19	160 0 Peak
3	2390.00	27.58	43.43	49.56	40.40	6.69	74.00	-30.57	160 0 Peak
4	2419.20	27.60	88.78	94.76	40.32	6.74	74.00	14.78	160 0 Peak

Data: 47 File: C:\Program Files\3\2013\outside\20130606 MLEM6 (48)

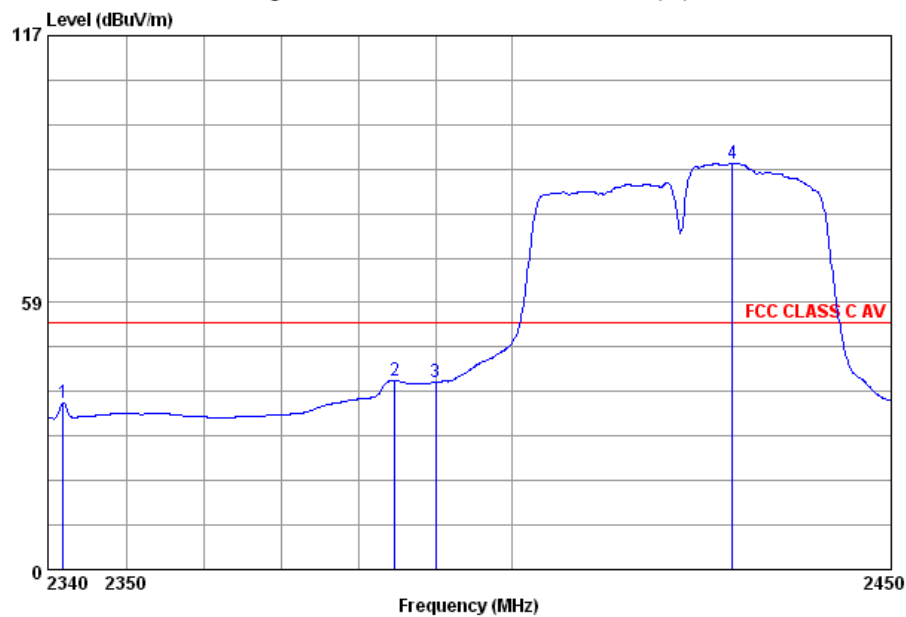


Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HF906 VERTICAL  
: RBW:1000.000KHz VBW:0.010KHz SWT:Auto  
ant : MI  
mode :  
memo : N HT40 CH3 AV

	Antenna		Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit		
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg
1	2350.89	27.51	31.42	37.68	40.38	6.61	54.00	-22.58	160	0 Average
2	2377.84	27.55	30.51	36.69	40.39	6.66	54.00	-23.49	160	0 Average
3	2390.00	27.58	32.01	38.14	40.40	6.69	54.00	-21.99	160	0 Average
4	2415.13	27.60	77.71	83.69	40.32	6.74	54.00	23.71	160	0 Average



Data: 48 File: C:\Program Files\ie3\2013\outside\20130606 MLEM6 (48)



Site : 966 CHAMBER  
Condition : FCC CLASS C AV 3m HF906 HORIZONTAL  
: RBW:1000.000KHz VBW:0.010KHz SWT:Auto  
ant : MI  
mode :  
memo : N HT40 CH3 AV

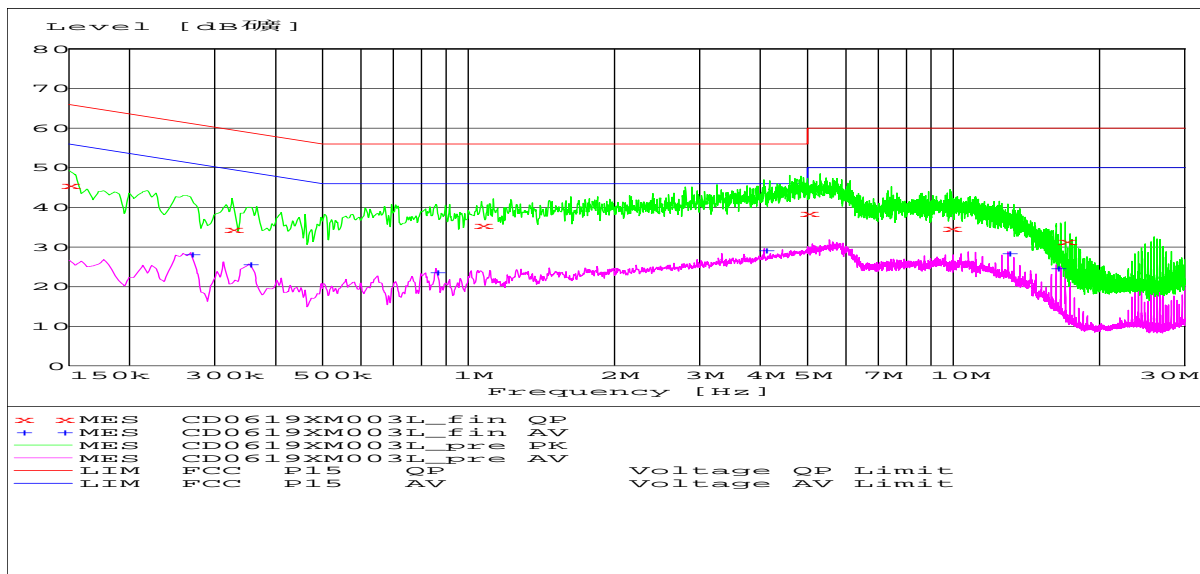
	Antenna	Read	Preamp	Cable	Limit	Over	A/Pos	T/Pos	Remark
	Freq	Factor	Level	Level	Factor	Loss	Line	Limit	
	MHz	dB/m	dBuV/m	dBuV	dB	dB	dBuV/m	dB	
1	2341.98	27.51	36.41	42.69	40.38	6.59	54.00	-17.59	160 0 Average
2	2384.66	27.55	41.33	47.50	40.39	6.67	54.00	-12.67	160 0 Average
3	2390.00	27.58	41.07	47.20	40.40	6.69	54.00	-12.93	160 0 Average
4	2428.88	27.62	89.10	94.97	40.25	6.76	54.00	35.10	160 0 Average

#### **4.8 AC Powerline Conducted Emissions: (FCC Part §15.207)**

The EUT was placed on an 80 cm high 1 x 1.5 m non-conductive table above a ground plane. Power to the EUT was provided through a Solar Corporation 50  $\Omega$ /50  $\mu$ H Line Impedance Stabilization Network bonded to a 3 x 2 meter ground plane. The LISN has its AC input supplied from a filtered AC power source. Power and data cables were moved about to obtain maximum emissions.

The 50  $\Omega$  output of the LISN was connected to the input of the spectrum analyzer and the emissions in the frequency range of 450 kHz to 30 MHz were measured. The detector function was set to quasi-peak or peak, as appropriate, and the resolution bandwidth during testing was at least 9 kHz, with all post-detector filtering no less than 10 times the resolution bandwidth.

**Table 12 AC Powerline Conducted Emissions**

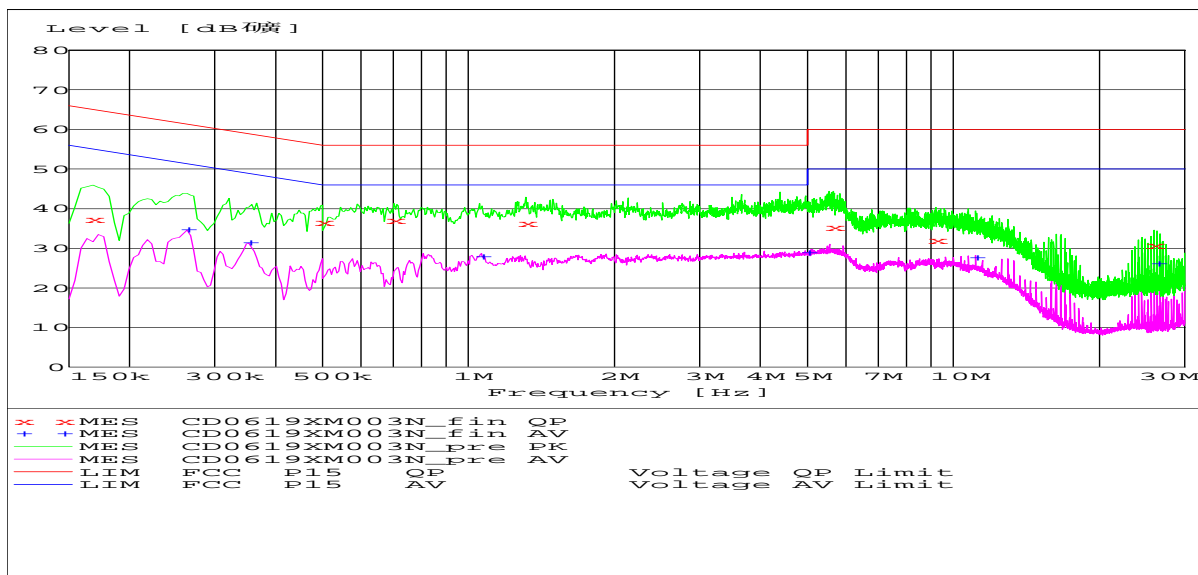


**MEASUREMENT RESULT: "CD0619XM003L\_fin QP"**

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.150000	45.50	20.3	66.00	20.50	L1	FLO
0.325500	34.40	20.4	59.60	25.20	L1	FLO
1.062500	35.60	20.5	56.00	20.40	L1	FLO
5.000000	38.50	20.9	56.00	17.50	L1	FLO
9.855500	34.70	21.2	60.00	25.30	L1	FLO
17.037500	31.30	21.4	60.00	28.70	L1	FLO

**MEASUREMENT RESULT: "CD0619XM003L\_fin AV"**

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.267000	28.20	20.4	51.20	23.00	L1	FLO
0.352500	25.60	20.4	48.90	24.30	L1	FLO
0.855500	23.70	20.5	46.00	22.30	L1	FLO
4.073000	29.10	20.7	46.00	16.90	L1	FLO
12.960500	28.30	21.3	50.00	21.70	L1	FLO
16.299500	24.70	21.4	50.00	25.30	L1	FLO



### MEASUREMENT RESULT: "CD0619XM003N\_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.168000	37.40	20.3	65.10	27.60	N	FLO
0.500000	36.50	20.4	56.00	19.50	N	FLO
0.702500	37.10	20.4	56.00	18.90	N	FLO
1.314500	36.30	20.6	56.00	19.70	N	FLO
5.657000	35.30	20.9	60.00	24.70	N	FLO
9.194000	32.00	21.2	60.00	28.00	N	FLO
25.925000	30.70	21.6	60.00	29.30	N	FLO

### MEASUREMENT RESULT: "CD0619XM003N\_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.262500	34.90	20.4	51.40	16.50	N	FLO
0.352500	31.60	20.4	48.90	17.30	N	FLO
1.062500	27.90	20.5	46.00	18.10	N	FLO
5.000000	28.90	20.9	46.00	17.10	N	FLO
11.111000	27.70	21.2	50.00	22.30	N	FLO
26.294000	26.20	21.6	50.00	23.80	N	FLO

\*\*\*END OF TEST REPORT\*\*\*