

# Intentional Radiator Test Report

Test Standards:  
FCC Part 15 (Subpart C – Intentional Radiators)  
Industry Canada RSS-210, Issue 8

Prepared For:  
Socket Communications, Inc.  
39700 Eureka Drive  
Newark, CA 94560

Equipment Under Test:  
Handheld Computer

Model:  
SOMO 655

Prepared by:



44366 S. Grimmer Blvd.  
Fremont, CA 94538  
USA

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## 1.0 CUSTOMER INFORMATION

Test Laboratory:	EMCE Engineering 44366 S. Grimmer Blvd. Fremont, CA 94538 USA  Tel: 510-490-4307 Fax: 510-490-3441 bob@universalcompliance.com
FCC registration number	0007-1981-20
Customer:	Socket Communications, Inc. 39700 Eureka Drive Newark, CA  Tel: 510-933-3077 Fax: 510-933-3001
Contact Person:	Tim Miller
Receipt of EUT:	5/1/12
Test Site ID	US5291. Industry Canada 3324A
Test plan reference:	FCC Part 2, 15 (15.247) / IC RSS-210, Issue 8
FCC ID:	LUB655-1
IC #:	2529A-6551
Date of testing:	5/1/12 – 6/29/12
Date of Report:	6/29/12

The tests listed in this report have been completed to demonstrate compliance to the CFR 47 Section 15.247, as well as Industry Canada Radio Standard RSS-210, Issue 8.

Contents approved:


Name: Bob Cole Title: President

## 2.0 EUT AND ACCESSORY INFORMATION

### EUT description

The EUT is a Socket Communications, Inc. Handheld computer, M/N: SOMO 655.

### EUT and accessories

The table below lists all EUTs and accessories used in the tests. Later in this report, only numbers in the last column are used to refer to the devices in each test.

### Software

The computers were equipped with test software provided by the customer. The software was used to control the EUT in the tests.

	Name	Type	S/N	Number
EUT	Handheld Computer	SOMO 655	N/A	E0001
Accessories	Laptop Computer	HP dv4000	3882A744	S0001
Software	WLAN Utility	WLAN RF Test	N/A	N/A

### EUT Information

Product Specification	Description
Model Name	SOMO 655
Type of Modulation	DTS
Number of Channels	13
Operating Frequency Range	2412 – 2472 MHz / Channels 1 - 13
Type of Equipment	Communications, Portable, Modular
Extreme Operating Temperature Range	-20 C – 55 C
Extreme Operating Voltage Range	108 – 132 VAC
Transmitter Method of Frequency Generation	Synthesized
Transmitter Aggregate Data Rate	>250kbps
Transmitter Duty Type	Continuous
Continuous Operation for Testing Purposes?	Yes

Number of Frequencies to be examined (CFR 47, 15.31(m)):

13 total, 3 frequencies examined (CH1 2412, CH6 2437, CH13 2472 MHz).

Antenna Requirement (CFR 47, 15.203, 15.204):

WiFi antenna -           Gain = 1.042 dBi  
                                  Type = PCB trace

Line Conducted Emissions (CFR 47, 15.207):

Not Applicable. EUT is Battery Powered

Antenna Information

### 3.0 SUMMARY OF TEST RESULTS

EUT Tested per FCC KDB 558074 D01 DTS Measurement Guidance v01

RSS 210 Section	CFR Section		Results
A8.2(a)	15.247 (a)(2)	EBW: 6 dB Emission Bandwidth	PASSED
A8.4(4)	15.247 (b)(3)	Max Peak Conducted Power	PASSED
A8.2(b)	15.247 (e)	Max Spectral Power Density	PASSED
A8.5	15.247 (d)	Max Conducted Spurious Emissions	PASSED
	15.247 (d), 15.205 (a), 15.209 (a)	Restricted Band	PASSED
A8.5	15.247	Band-Edge Measurements	PASSED
	15.247 (d), 15.205 (a), 15.209 (a)	Restricted Band	PASSED
A8.5	15.247 (d)	Spurious radiated emissions	PASSED

PASS        The EUT passed that particular test.  
FAIL        The EUT failed that particular test.

## 4.0 STANDARDS AND MEASUREMENT METHODS

The tests were performed in guidance of CFR 47 section 15.247, FCC KDB 558074 D01 DTS Measurement Guidelines v01, and ANSI C63.10 (2009). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method". For the test equipment, see device list in the end of this test.

### 4.1 Selection of operation mode for tests

Before tests, several operation modes, and modulation patterns were tried. The worst case was selected for each test and those results reported.

## 5.0 TEST SETUPS

To fulfill all requirements for the testing, total of two different test setups were used. One EUT was used, unmodified for radiated tests.

SMA connector added in place of internal antenna for Antenna Conducted measurements.

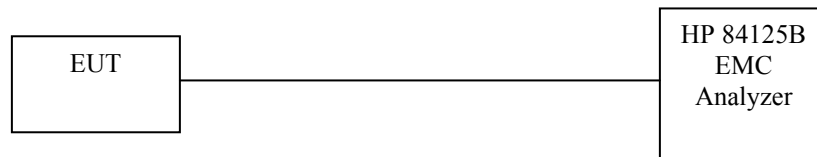
### Setup A (Antenna Conducted measurements)

Operational description

#### ANTENNA CONDUCTED EMISSIONS MEASUREMENTS

The EUT was connected through a SMA Cable connected to the Spectrum Analyzer. This setup was used for the *PEAK POWER OUTPUT, POWER DENSITY, 6 dB BW, BAND-EDGE COMPLIANCE, and CONDUCTED SPURIOUS EMISSIONS* measurements.

Block Diagram



The solid lines are coaxial cables and the dashed lines are either EUT insertion to the test board or control cables between test setup devices. The measurement results were adjusted with the attenuation of the coaxial cable.

## Setup B (Radiated measurements)

Operational description

### RADIATED EMISSIONS MEASUREMENTS

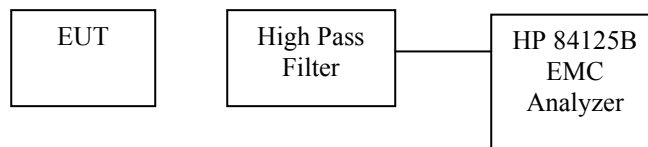
This setup was used in radiated emissions measurements.

The EUT was tested in 3 orthogonal orientations.

Worst case data is presented.

THIS SETUP USED FOR RADIATED SPURIOUS EMISSIONS

#### *Block diagram*



Note: The high –pass filter is used for the Radiated Spurious emissions above 2.4835 GHz. A pass-thru connector is used for Radiated Spurious emissions measurements from 30 MHz – 2.4 GHz.

The solid lines are coaxial cables and the dashed lines are either EUT insertion to the test board or control cables between test setup devices.



## 6.0 TEST RESULTS

### 6 DB BANDWIDTH

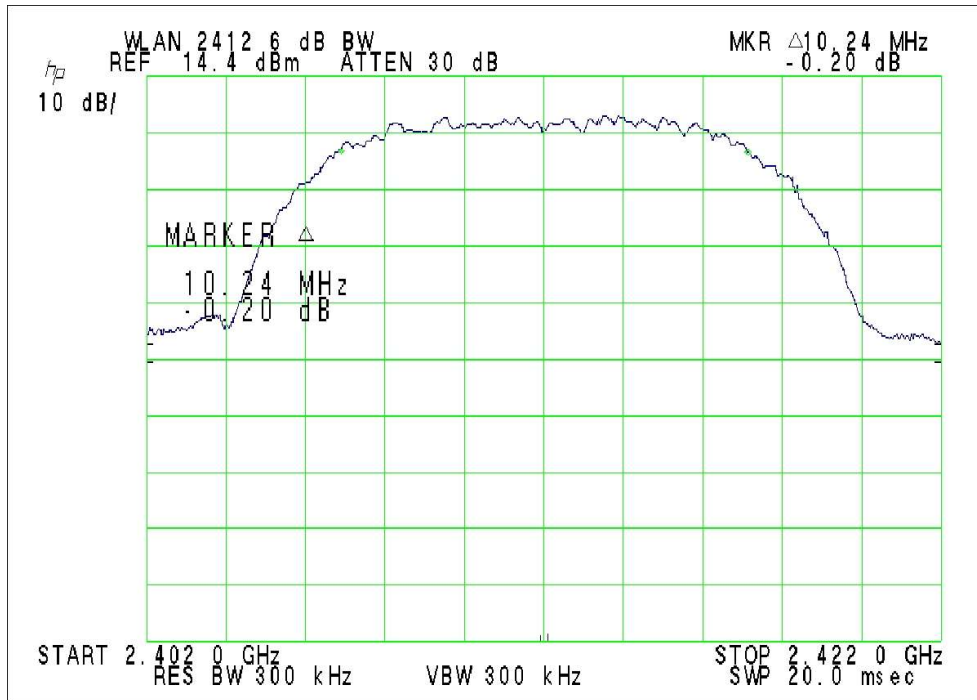
EUT	SOMO 655
Test setup	A (conducted)
Temp, Humidity	68° F, 30.28
Date of Measurement	5/20/12
Measurement Procedure	KDB 558074 D01 5.1.1 EBW Measurement Procedure
Measured by	Bob Cole
Result	PASSED

Freq. Band	Test Type	RBW	VBW
2412 - 2472	Peak	1MHz	1 MHz

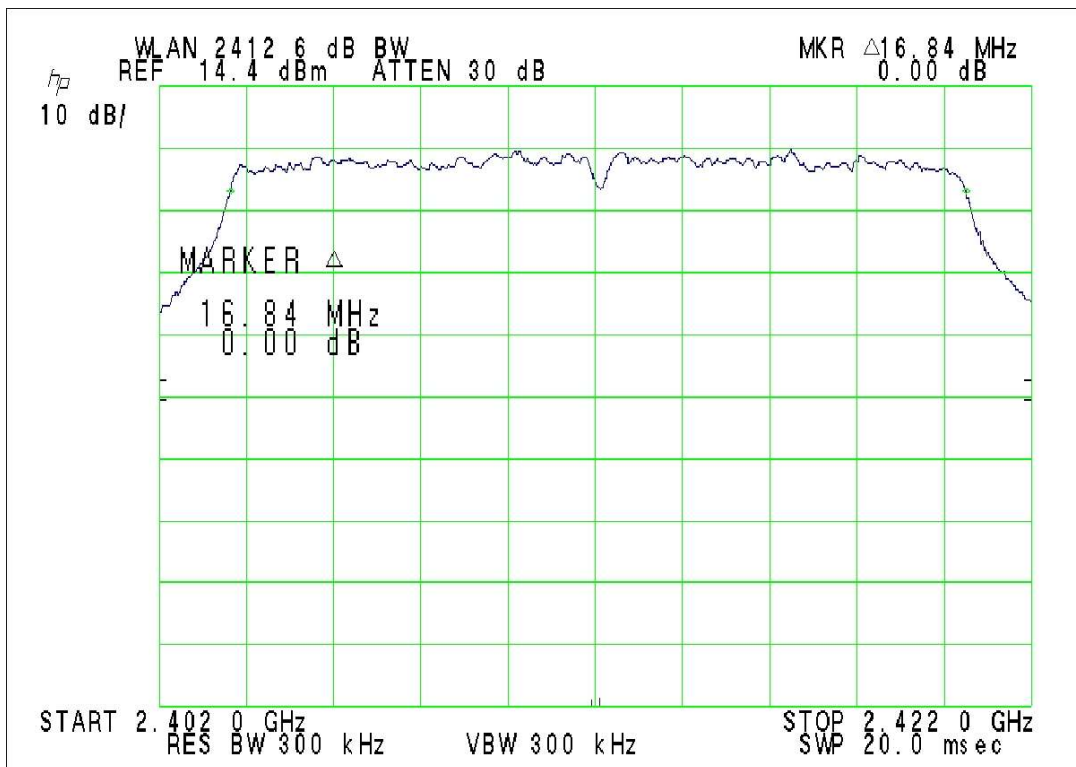
RSS 210 Section	CFR Section	Description	Results
A8.2(a)	15.247 (a)(2)	6 dB Emission Bandwidth Limit = >500kHz	PASSED

Mode	Data Rate	Modulation	6dB BW (MHz) CH 1	6dB BW (MHz) CH 6	6dB BW (MHz) CH 13
802.11b	1.0	CCK	9.56	9.64	9.42
802.11b	2.0	CCK	10.06	10.14	10.20
802.11b	5.5	CCK	10.16	10.18	10.44
802.11b	11.0	CCK	10.24	10.24	10.42
802.11g	6.0	OFDM	16.80	16.72	16.92
802.11g	9.0	OFDM	16.79	16.59	16.87
802.11g	12.0	OFDM	16.74	16.76	16.54
802.11g	18.0	OFDM	16.69	16.68	16.78
802.11g	24.0	OFDM	16.70	16.79	16.90
802.11g	36.0	OFDM	16.74	16.96	16.90
802.11g	48.0	OFDM	16.72	16.74	16.92
802.11g	54.0	OFDM	16.84	16.78	16.98
802.11n	MCS0	OFDM	16.65	17.98	17.58
802.11n	MCS1	OFDM	16.74	17.92	17.85
802.11n	MCS2	OFDM	16.68	17.88	17.78
802.11n	MCS3	OFDM	16.76	17.88	17.84
802.11n	MCS4	OFDM	16.69	17.95	17.95
802.11n	MCS5	OFDM	16.64	17.92	17.83
802.11n	MCS6	OFDM	16.75	18.00	17.79
802.11n	MCS7	OFDM	16.84	18.04	17.90

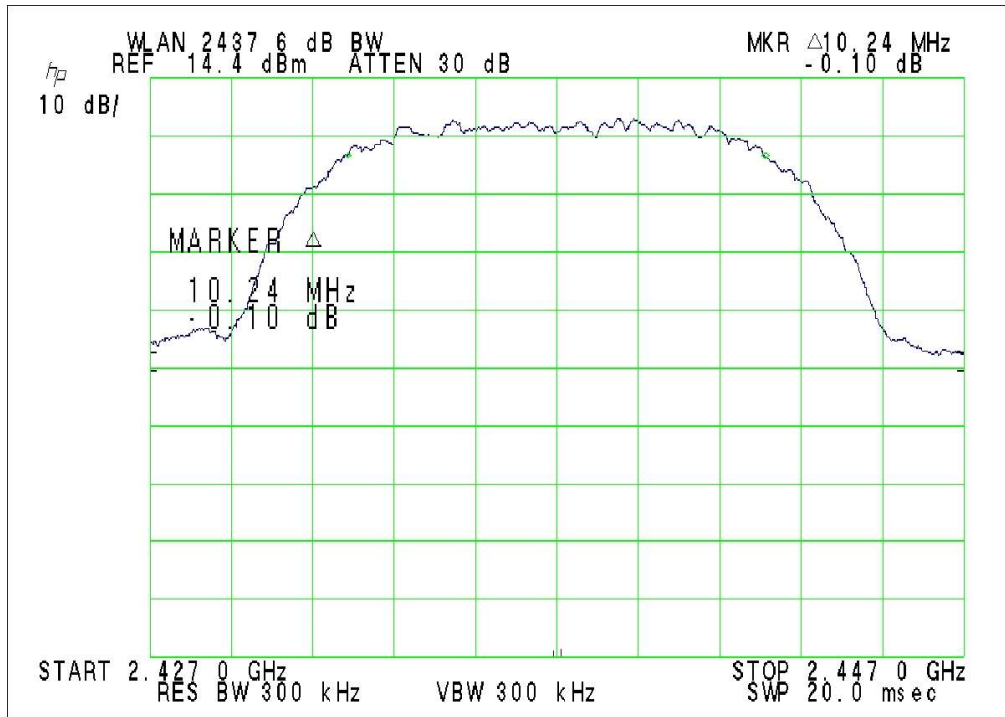
### 6 dB BW 2412 MHz CCK 11 Mbps



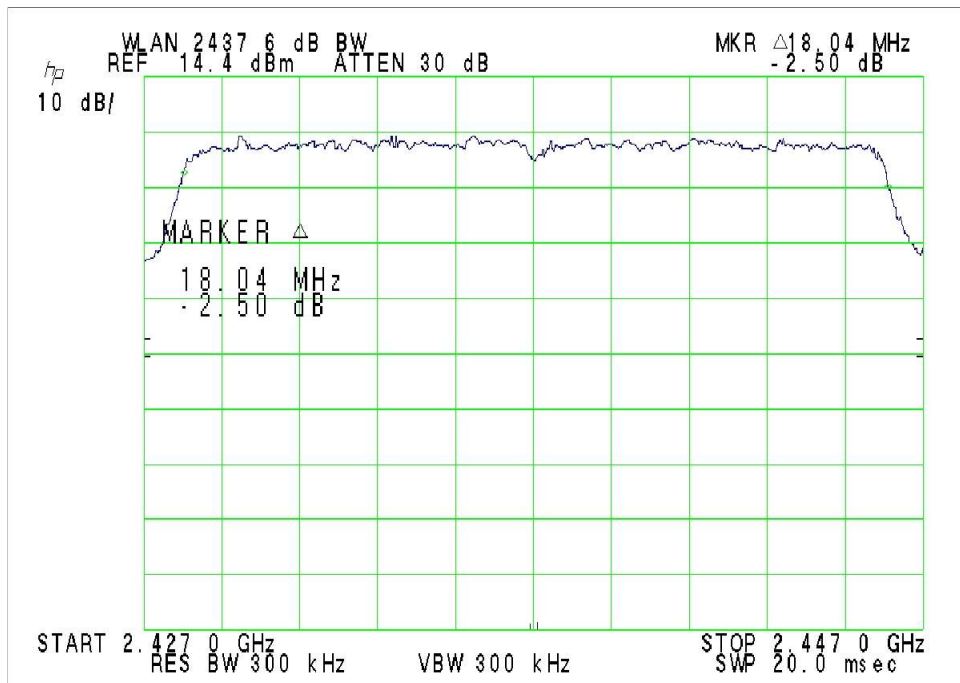
### 6 dB BW 2412 MHz OFDM MCS7



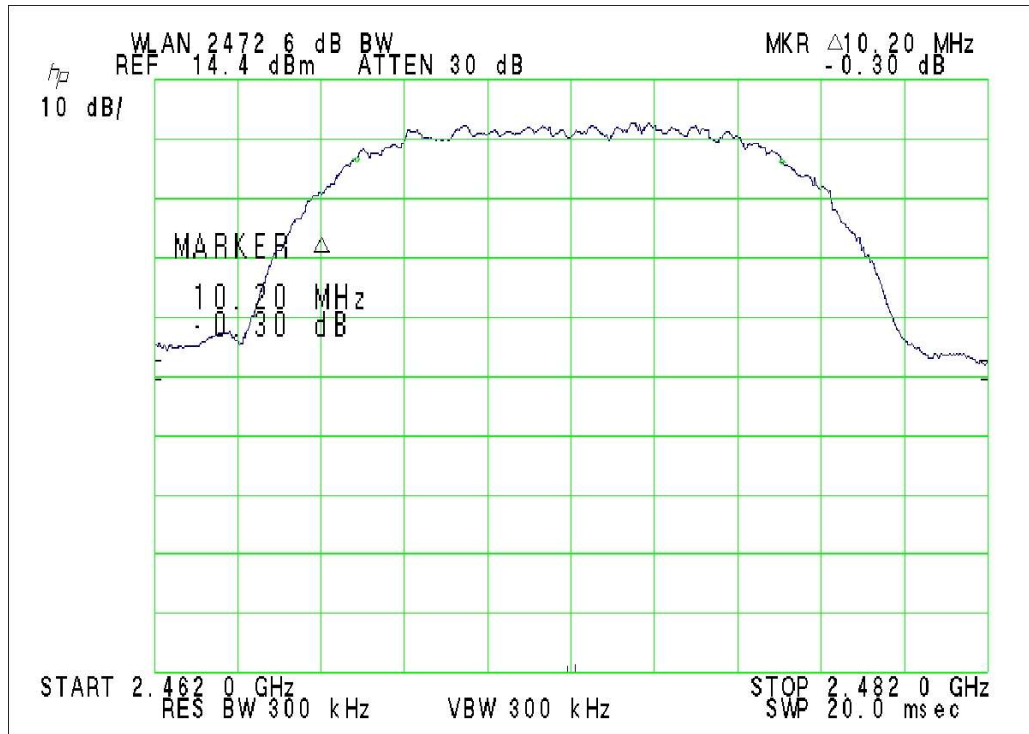
### 6 dB BW 2437 MHz CCK 11 Mbps



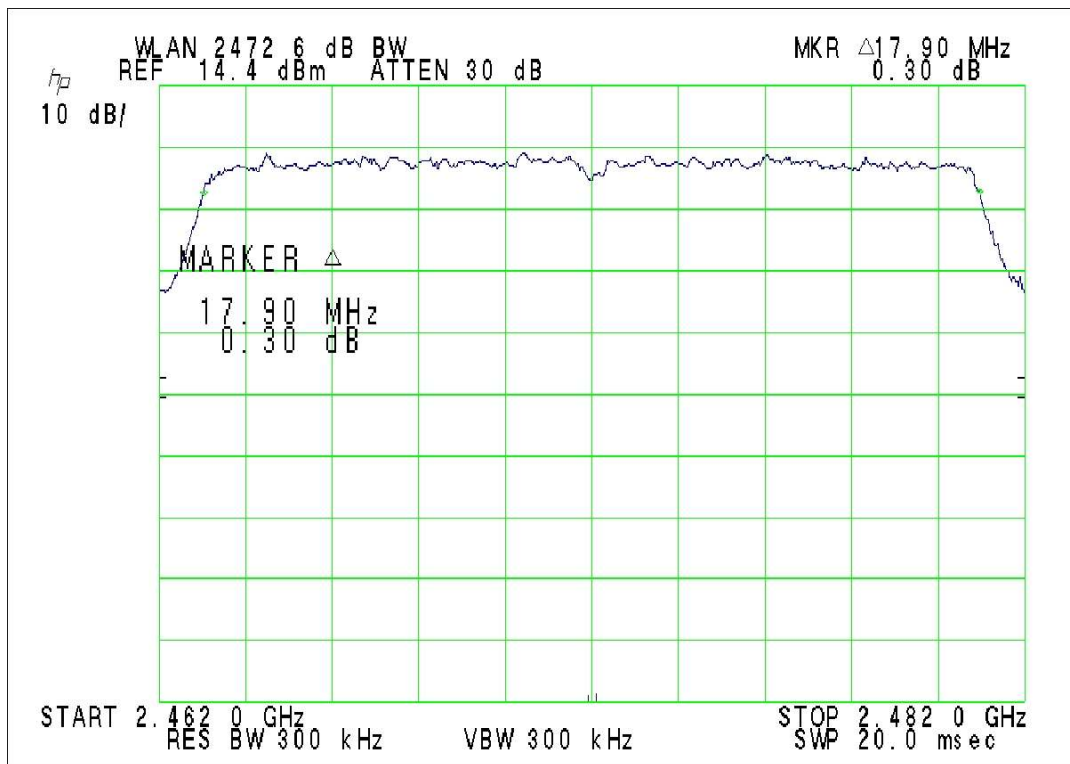
### 6 dB BW 2437 MHz OFDM 54 Mbps



### 6 dB BW 2472 MHz CCK 11 Mbps



### 6 dB BW 2472 MHz OFDM 54 Mbps



## PEAK CONDUCTED OUTPUT POWER

Peak Output Power [CFR 47, 15.247(A)(2) and RSS-210 a8.2(A)]

EUT	SOMO 655
Test setup	A (conducted)
Temp, Humidity	68° F, 30.28
Date of Measurement	6/29/12
Measurement Procedure	KDB 558074 D01 5.2.1 Measurement Procedure PK1
Measured by	Bob Cole
Result	PASSED

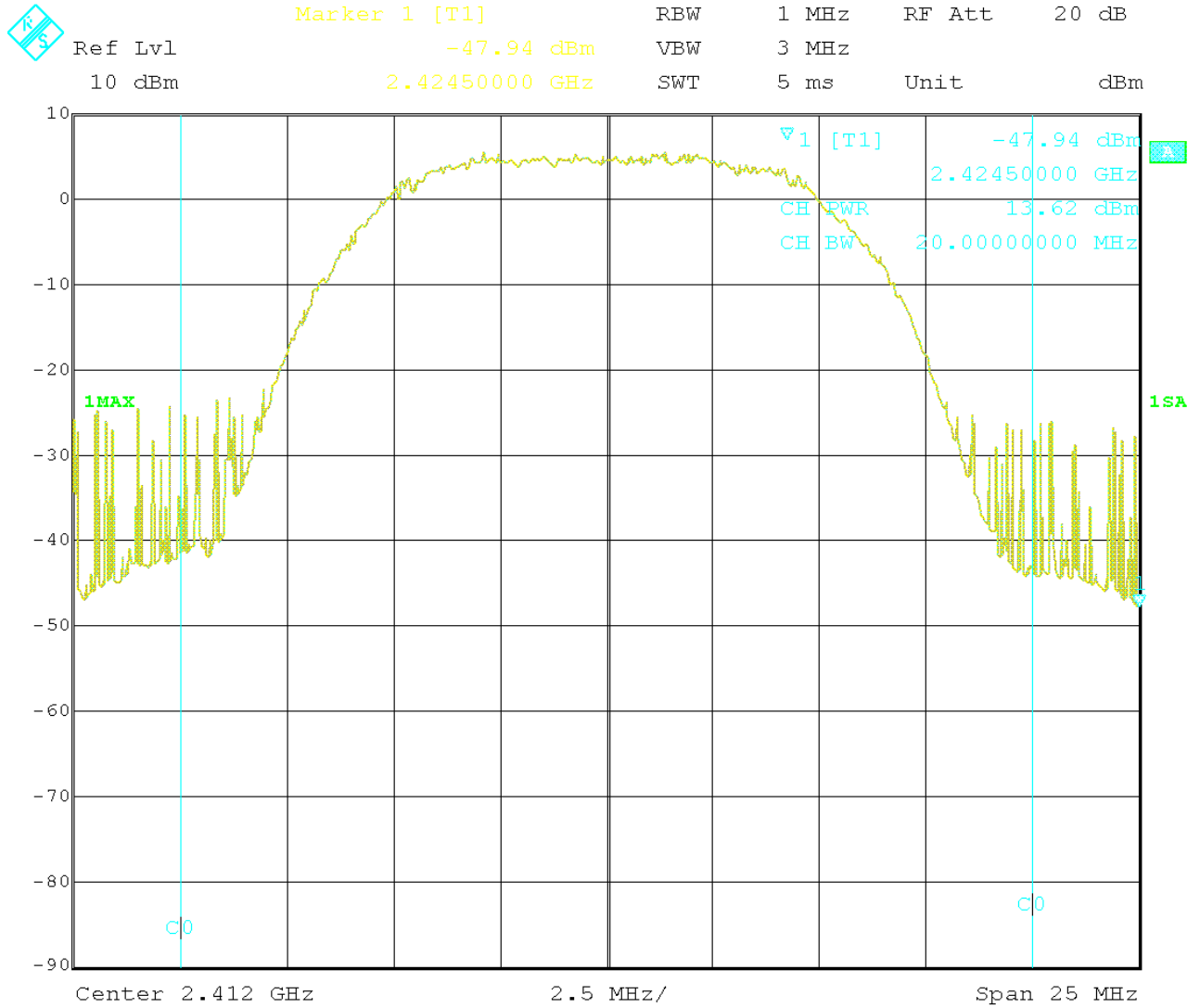
Freq. Band	Test Type	RBW	VBW
2412 - 2472	Peak	1MHz	1 MHz

Channel BW 20 MHz

RSS 210 Section	CFR Section	Description	Results
A8.4(4)	15.247 (b)(3)	Peak Conducted Power Limit = 30 dBm	PASSED

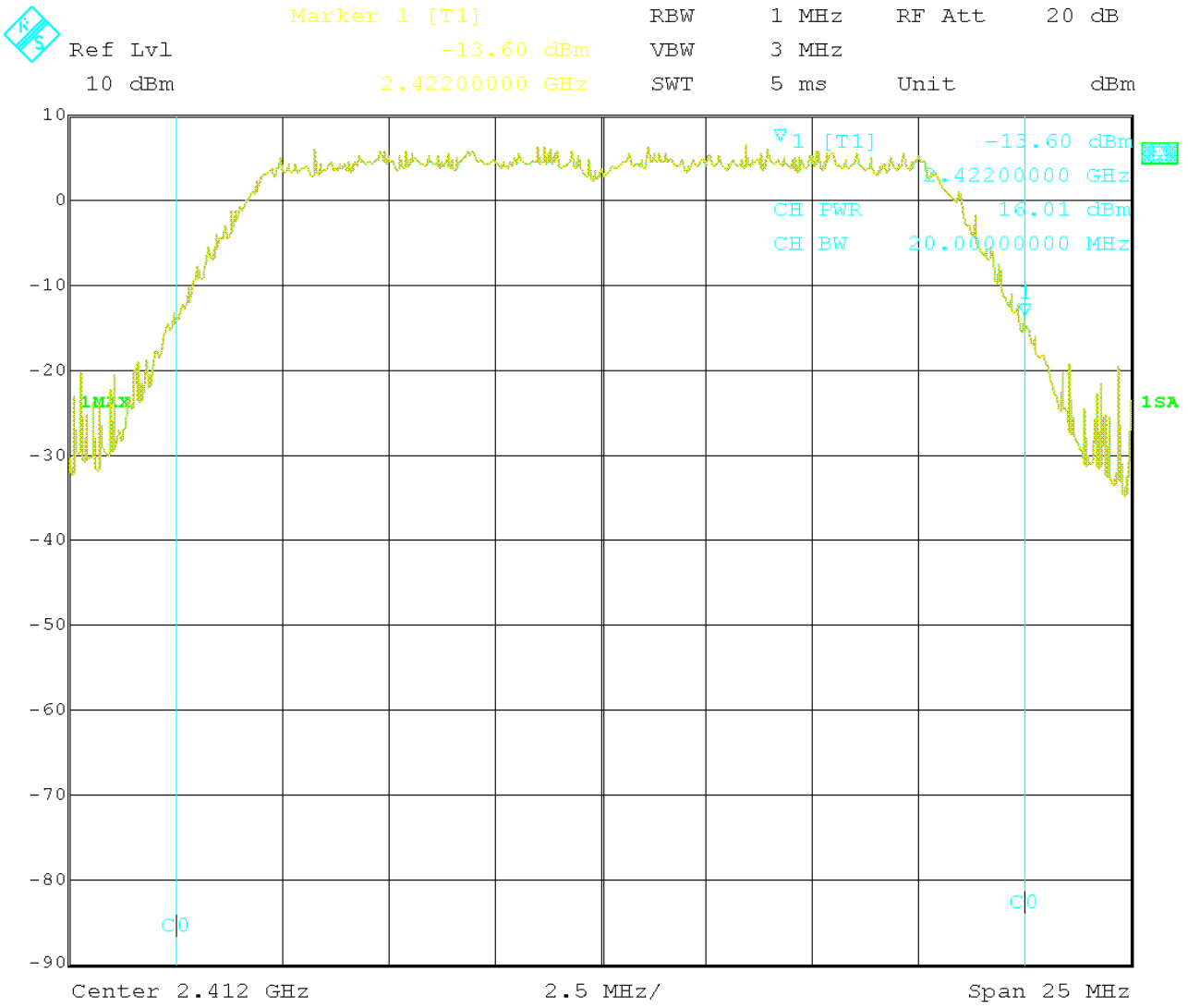
Mode	Channel (MHz)	Peak Power (dBm)	Average Power (dBm)	Limit (dBm)
802.11b	2412	13.62	9.02	30
	2437	13.83	9.09	30
	2472	13.62	9.04	30
802.11g	2412	16.01	9.73	30
	2437	16.13	9.39	30
	2472	16.05	9.54	30
802.11n (20MHz)	2412	15.45	8.99	30
	2437	15.66	9.04	30
	2472	15.61	9.04	30

2412 802.11b Peak Power – 13.62 dBm



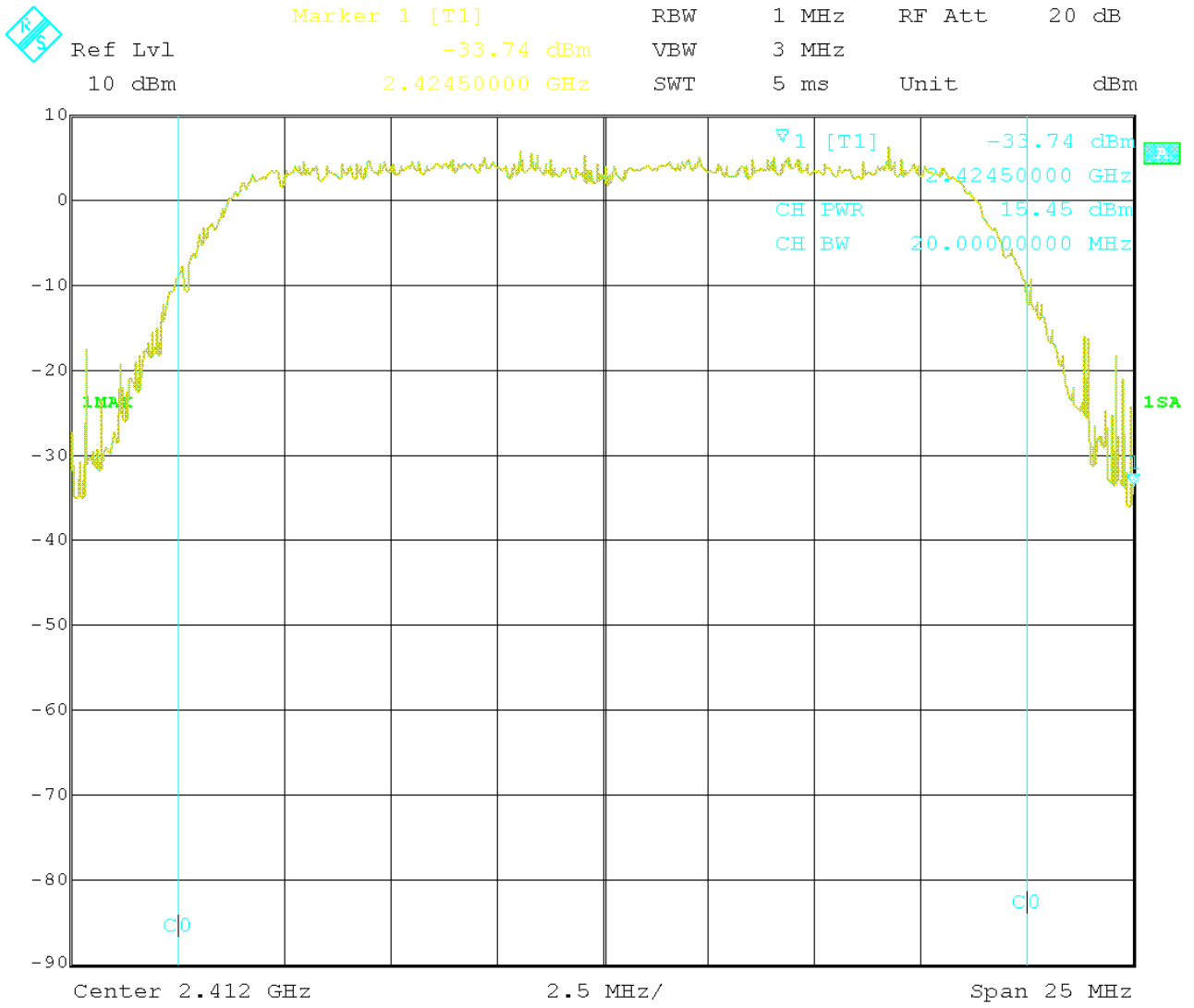
Date: 29.JUN.2012 21:29:44

### 2412 802.11g Peak Power – 16.01 dBm



Date: 29.JUN.2012 21:12:04

2412 802.11n Peak Power – 15.45 dBm



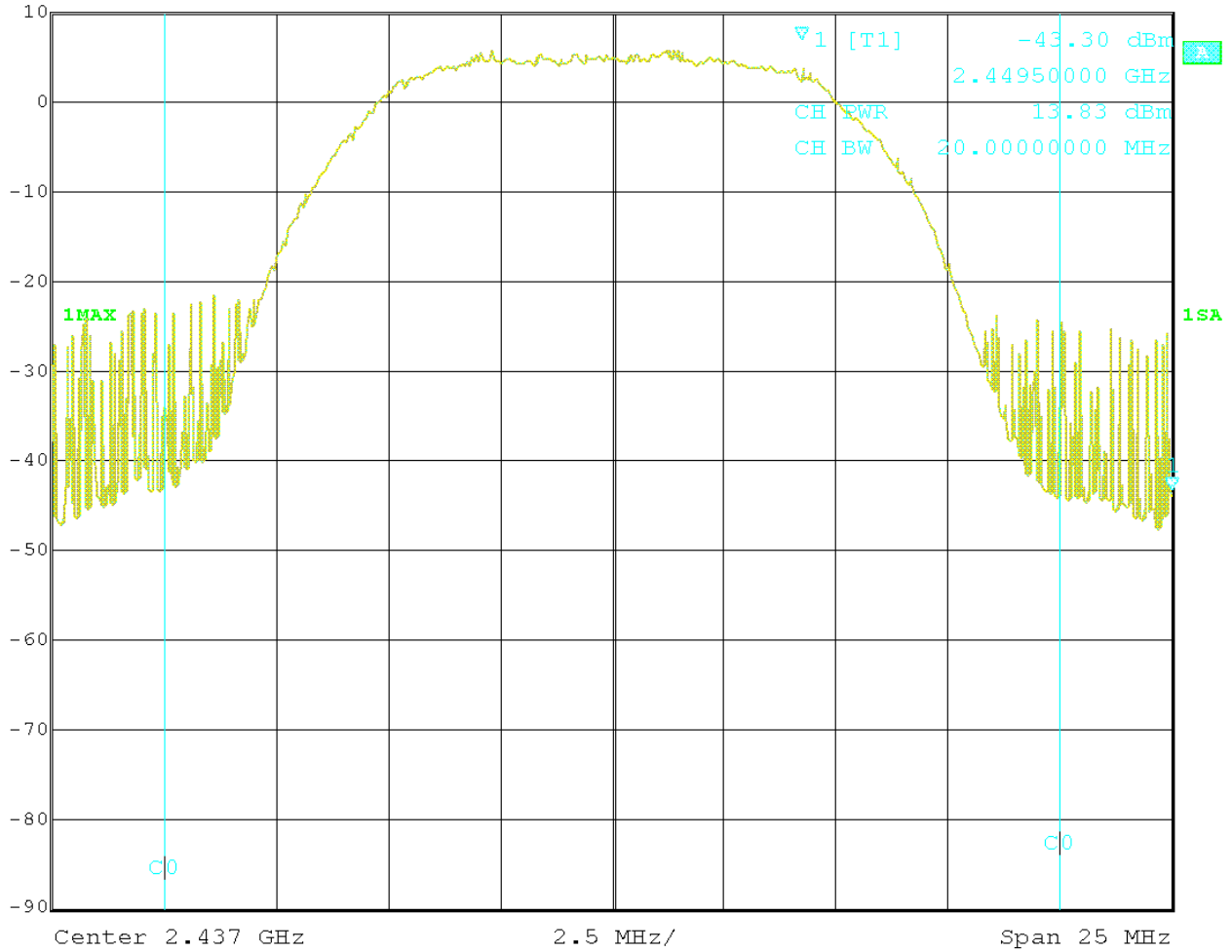
Date: 29.JUN.2012 21:40:59



2437 802.11b Peak Power – 13.83 dBm

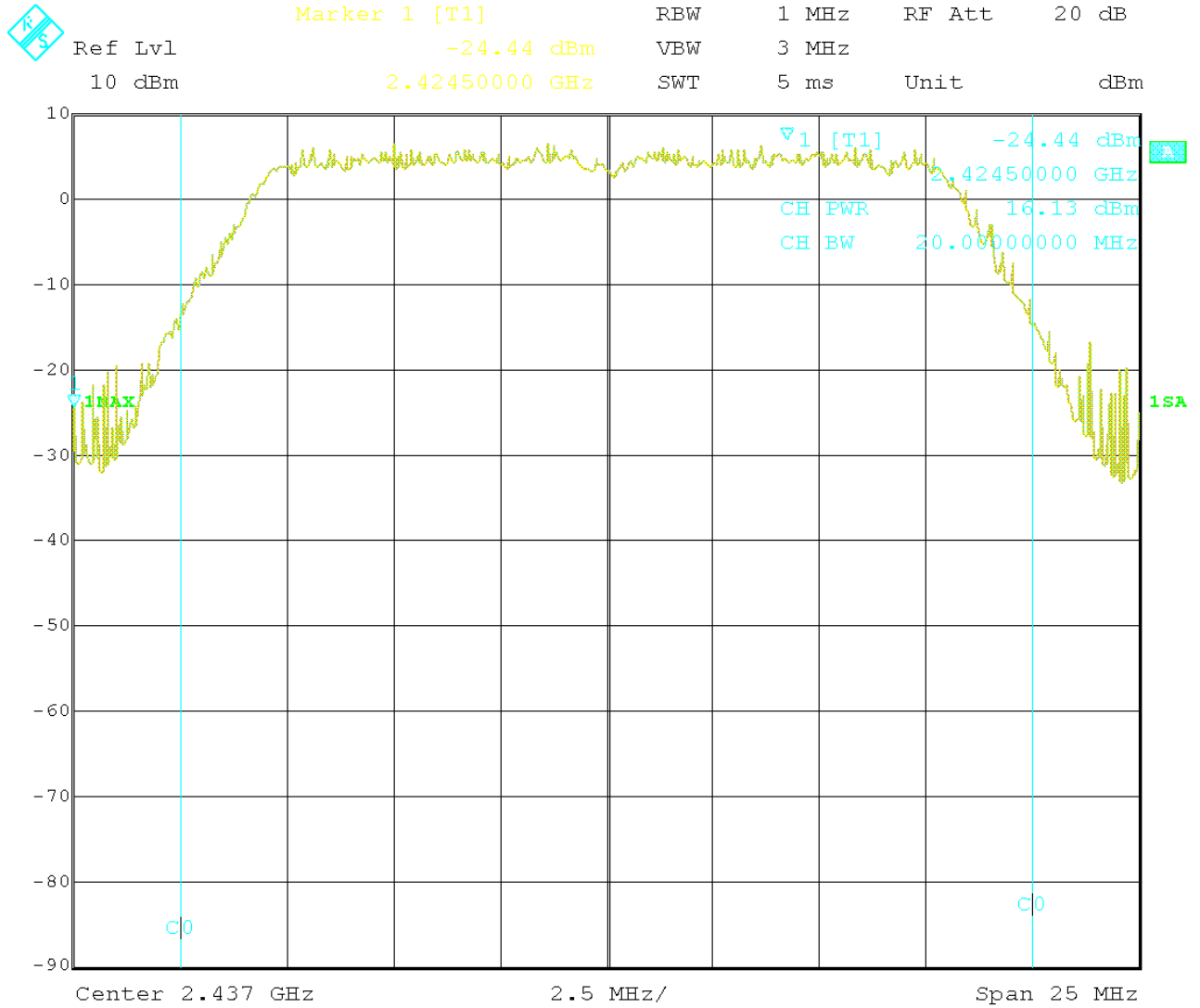


Ref Lvl	10 dBm	Marker 1 [T1]	2.44950000 GHz	RBW	1 MHz	RF Att	20 dB
			-43.30 dBm	VBW	3 MHz		
				SWT	5 ms	Unit	dBm



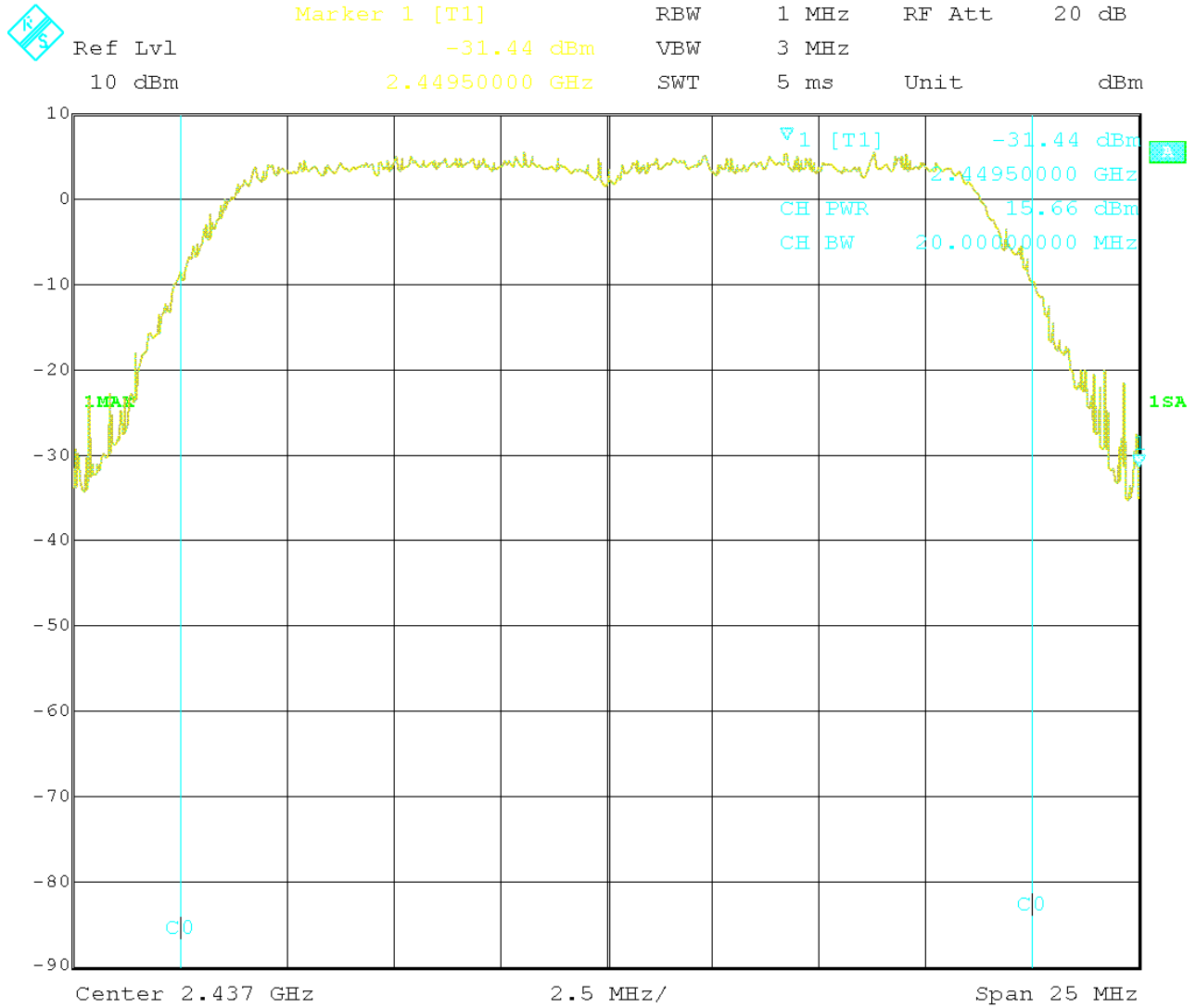
Date: 29.JUN.2012 21:28:21

2437 802.11g Peak Power – 16.13 dBm



Date: 29.JUN.2012 21:14:26

2437 802.11n Peak Power – 15.66 dBm

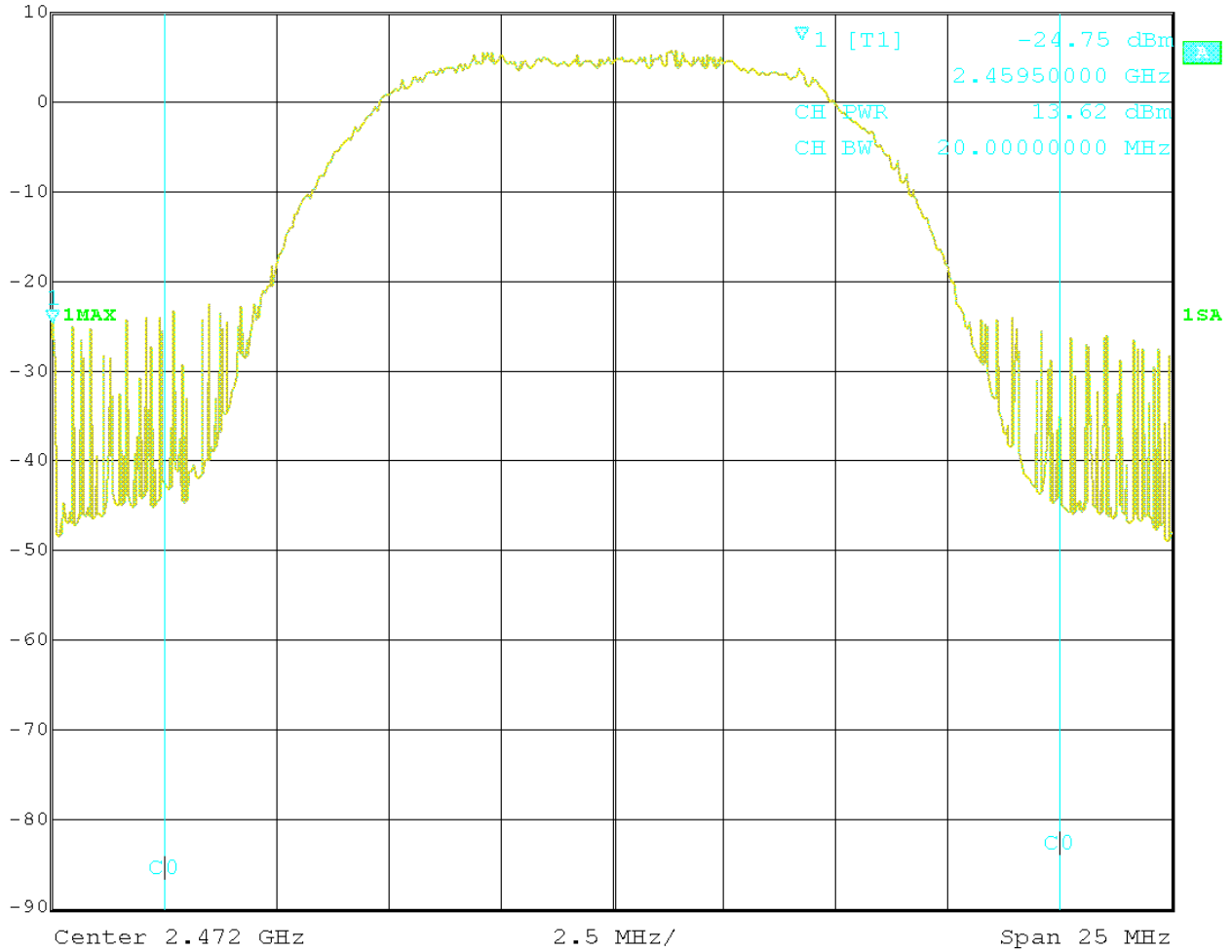


Date: 29.JUN.2012 21:39:39

### 2472 802.11b Peak Power – 13.62 dBm



Ref Lvl	10 dBm	Marker 1 [T1]	-24.75 dBm	RBW	1 MHz	RF Att	20 dB
			2.45950000 GHz	VBW	3 MHz	Unit	dBm
				SWT	5 ms		

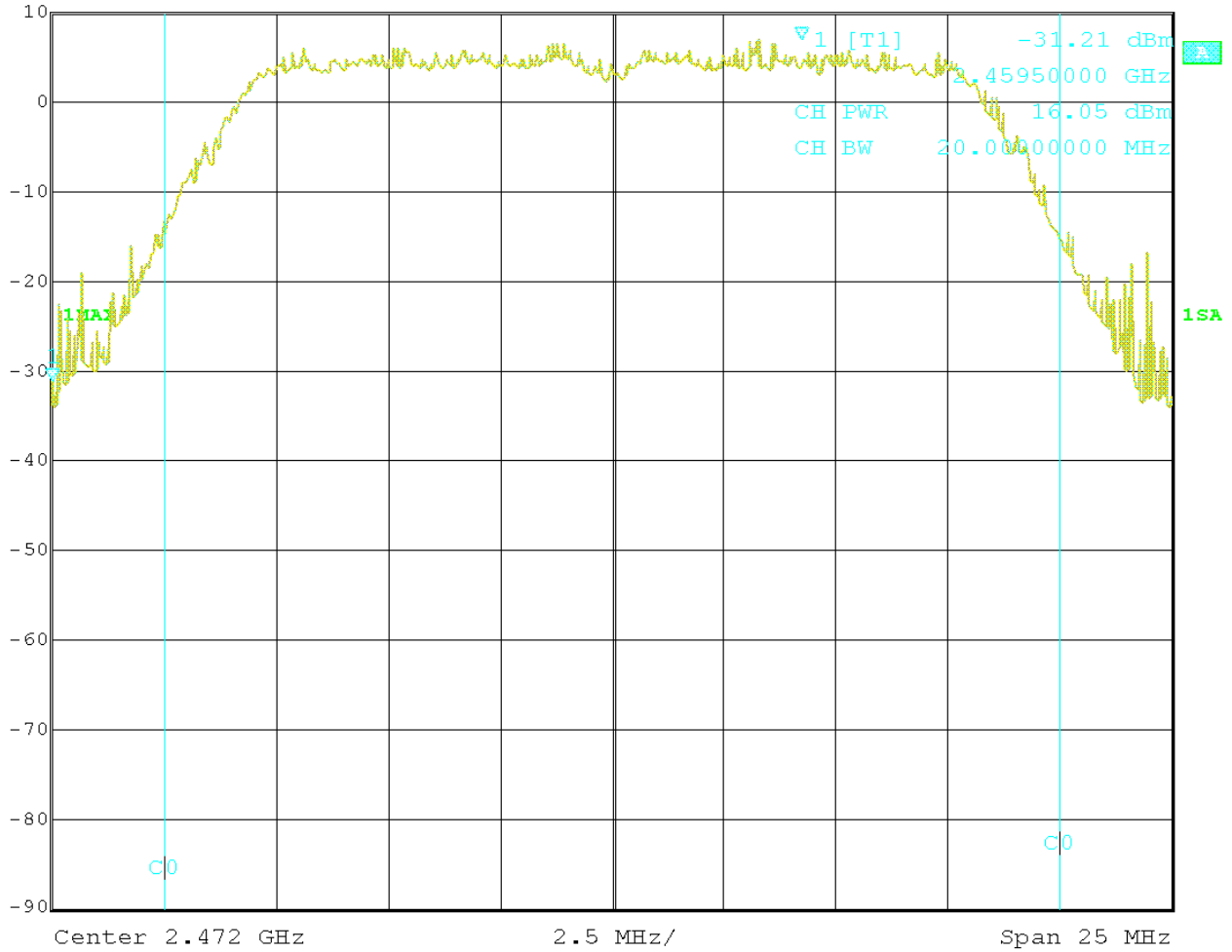


Date: 29.JUN.2012 21:33:10

2472 802.11g Peak Power – 16.05 dBm




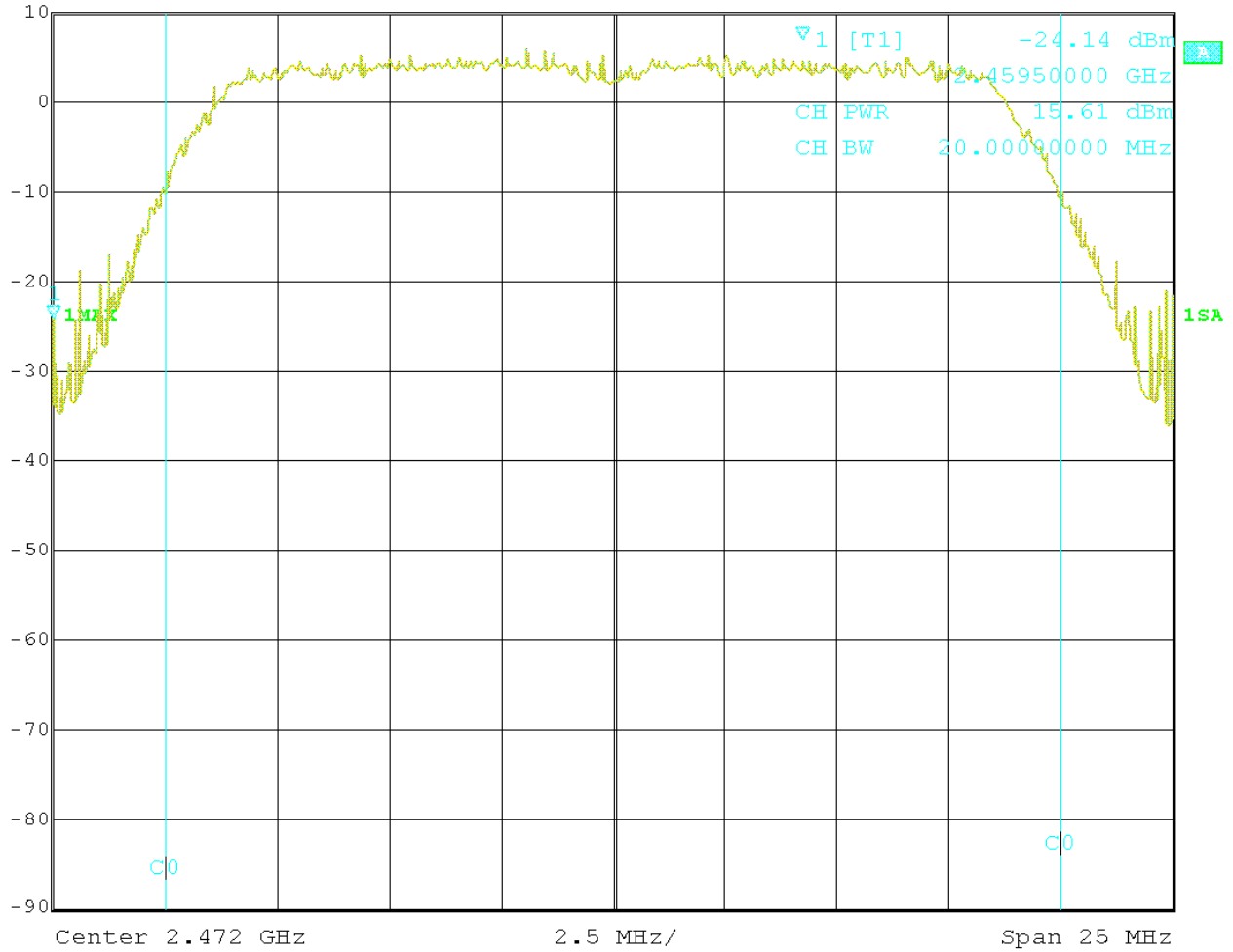
Ref Lvl	10 dBm	Marker 1 [T1]	-31.21 dBm	RBW	1 MHz	RF Att	20 dB
			2.45950000 GHz	VBW	3 MHz	Unit	dBm
				SWT	5 ms		



Date: 29.JUN.2012 21:22:48

### 2472 802.11n Peak Power – 15.61 dBm

	Marker 1 [T1]	RBW	1 MHz	RF Att	20 dB
Ref Lvl	-24.14 dBm	VBW	3 MHz		
10 dBm	2.45950000 GHz	SWT	5 ms	Unit	dBm

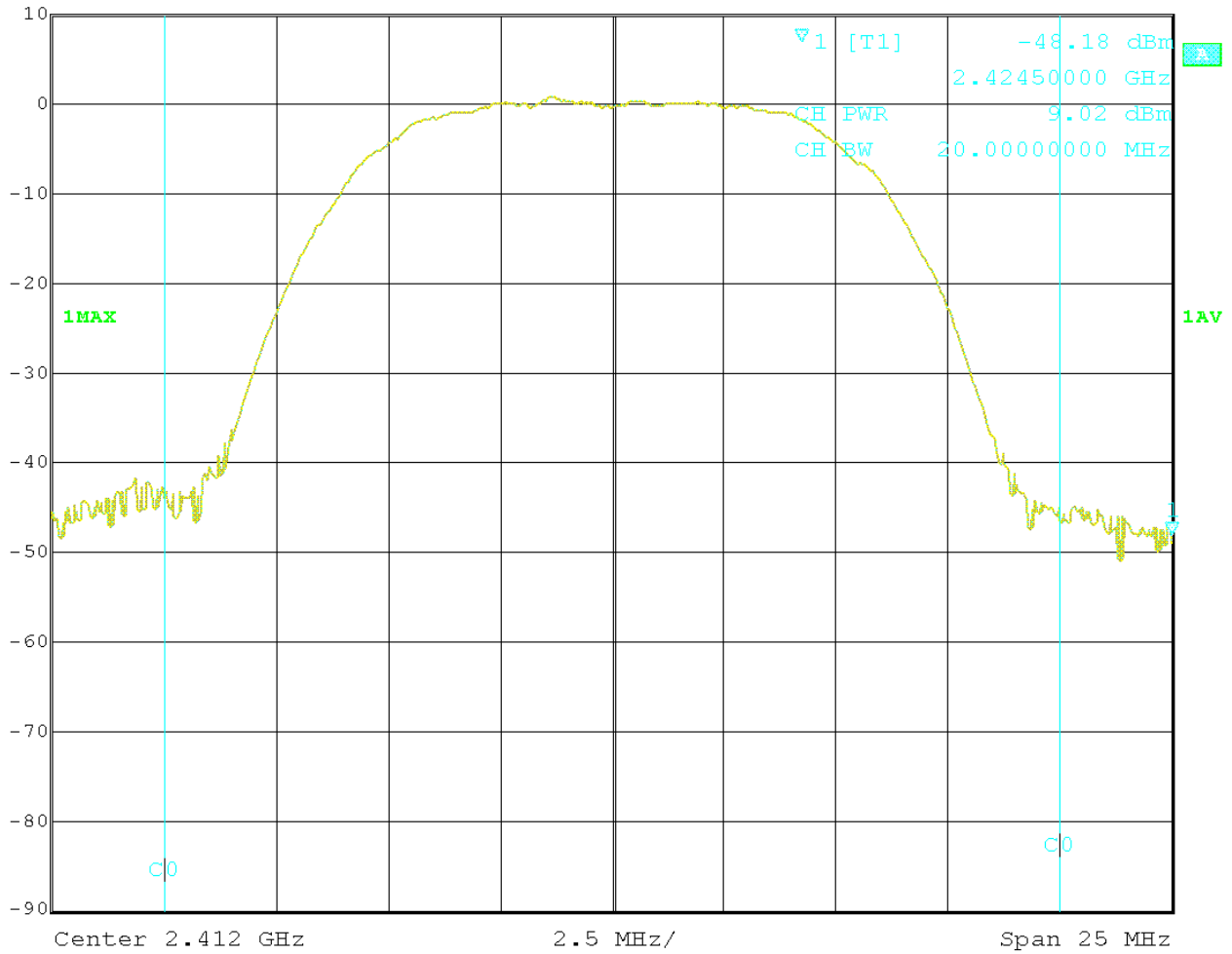


Date: 29.JUN.2012 21:35:36

### 2412 802.11b Average Power – 9.02 dBm



Ref Lvl	10 dBm	Marker 1 [T1]	-48.18 dBm	RBW	1 MHz	RF Att	20 dB
			2.42450000 GHz	VBW	3 MHz	Unit	dBm
				SWT	5 ms		

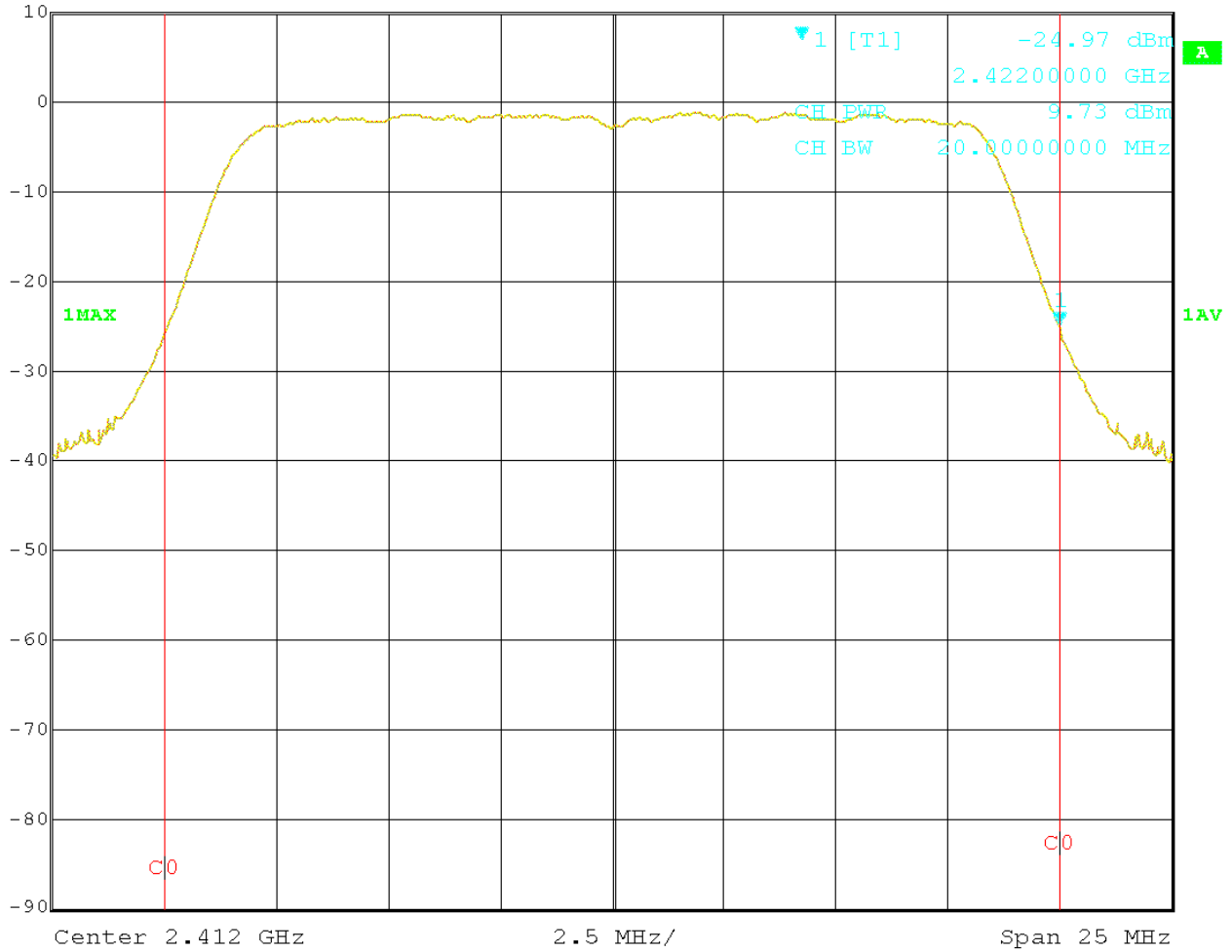


Date: 29.JUN.2012 21:30:58

### 2412 802.11g Average Power – 9.73 dBm



Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	20 dB
10 dBm	-24.97 dBm	VBW	3 MHz		
	2.42200000 GHz	SWT	5 ms	Unit	dBm



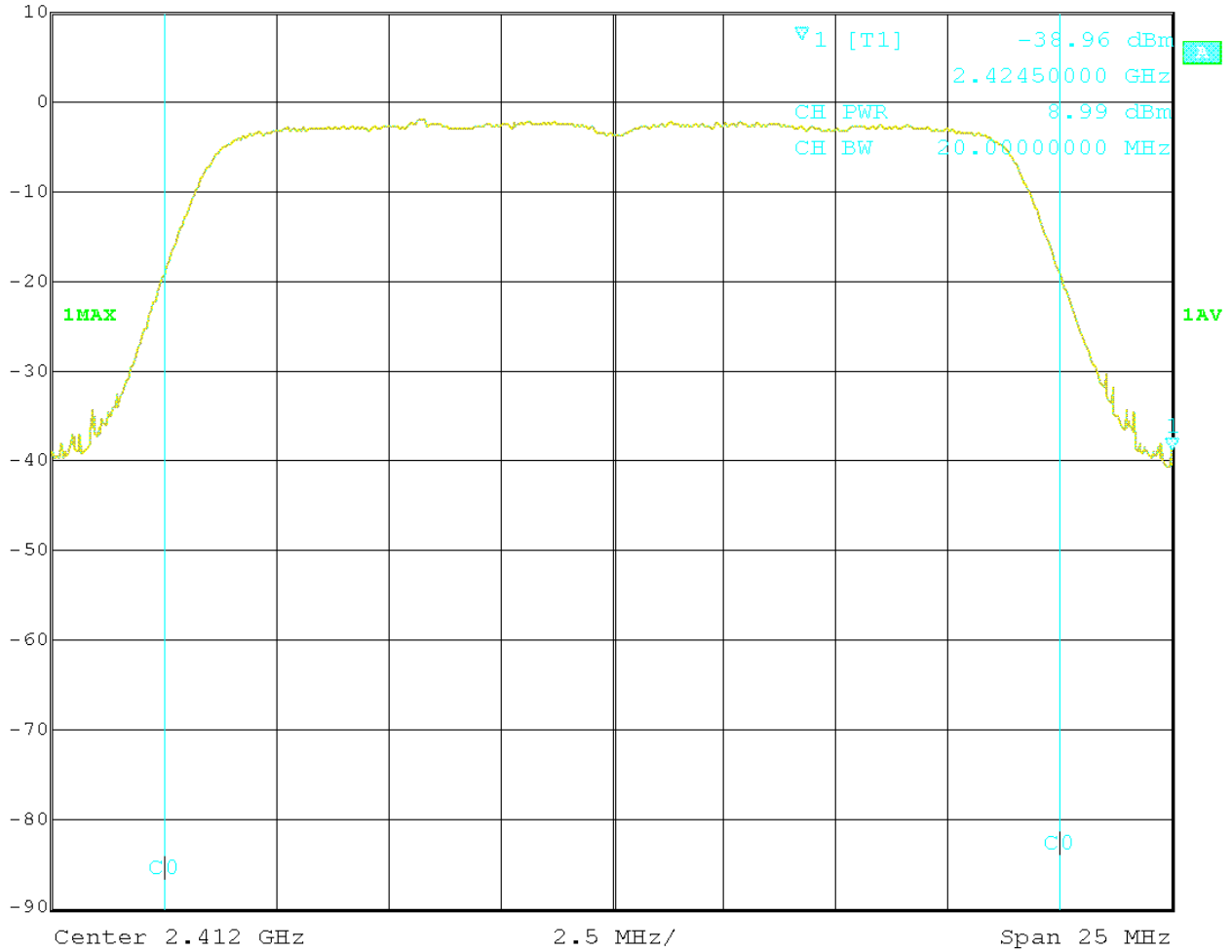
Date: 29.JUN.2012 20:57:26



### 2412 802.11n Average Power – 8.99 dBm



Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	20 dB
10 dBm	-38.96 dBm	VBW	3 MHz		
	2.42450000 GHz	SWT	5 ms	Unit	dBm

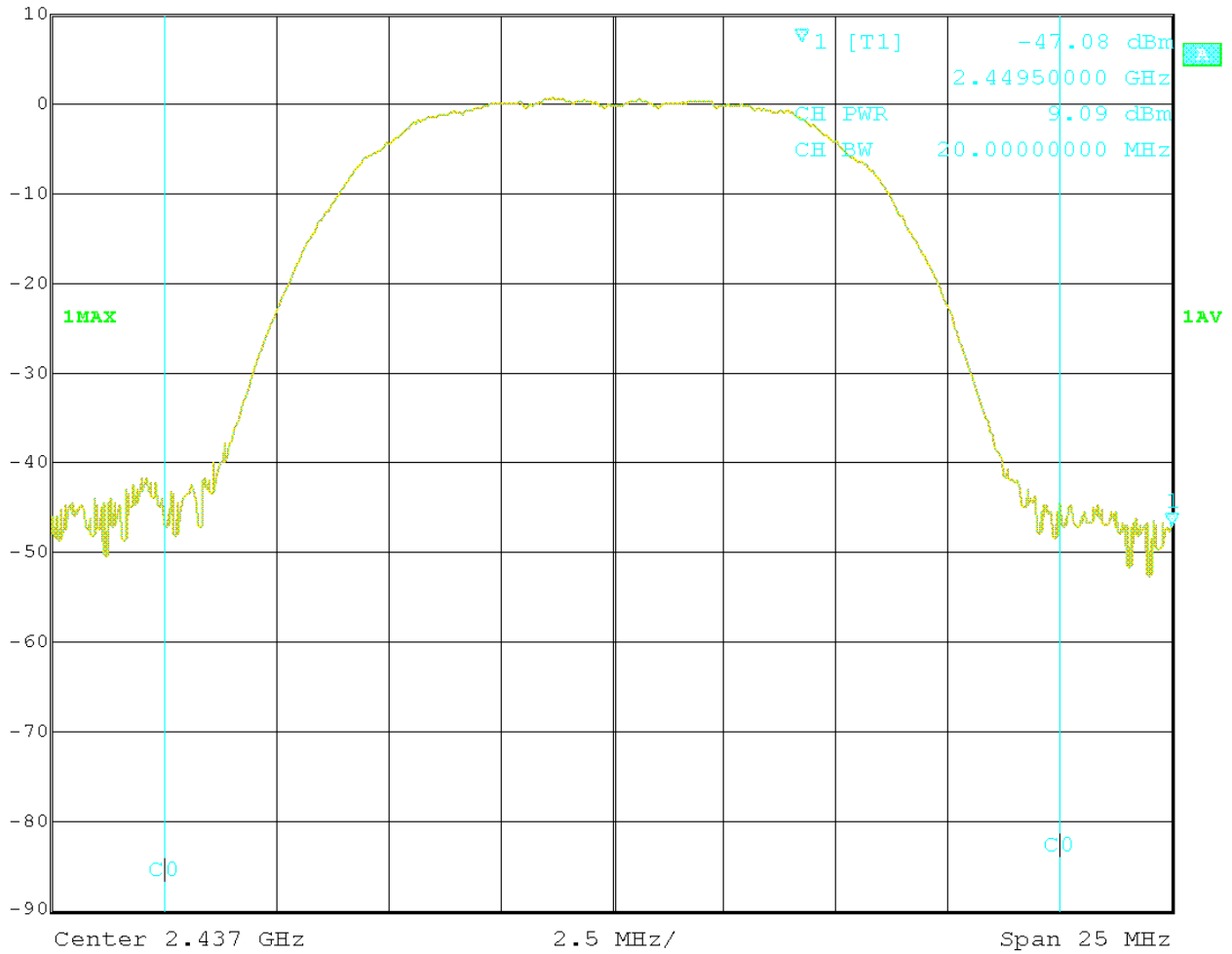


Date: 29.JUN.2012 21:42:18

### 2437 802.11b Average Power – 9.09 dBm



Ref Lvl	10 dBm	Marker 1 [T1]	-47.08 dBm	RBW	1 MHz	RF Att	20 dB
			2.44950000 GHz	VBW	3 MHz	Unit	dBm
				SWT	5 ms		

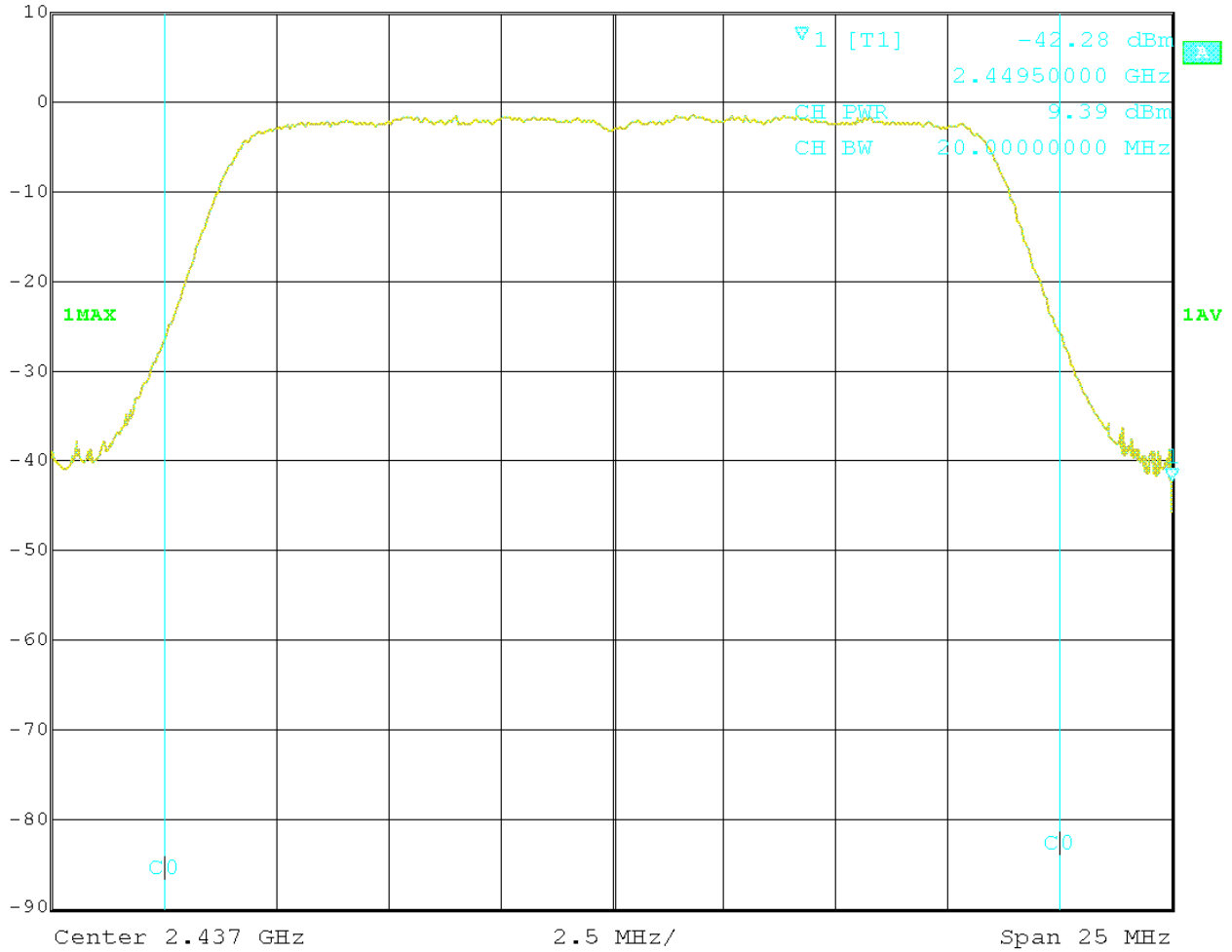


Date: 29.JUN.2012 21:27:07

### 2437 802.11g Average Power – 9.39 dBm



Ref Lvl	10 dBm	Marker 1 [T1]	-42.28 dBm	RBW	1 MHz	RF Att	20 dB
			2.44950000 GHz	VBW	3 MHz	Unit	dBm
				SWT	5 ms		

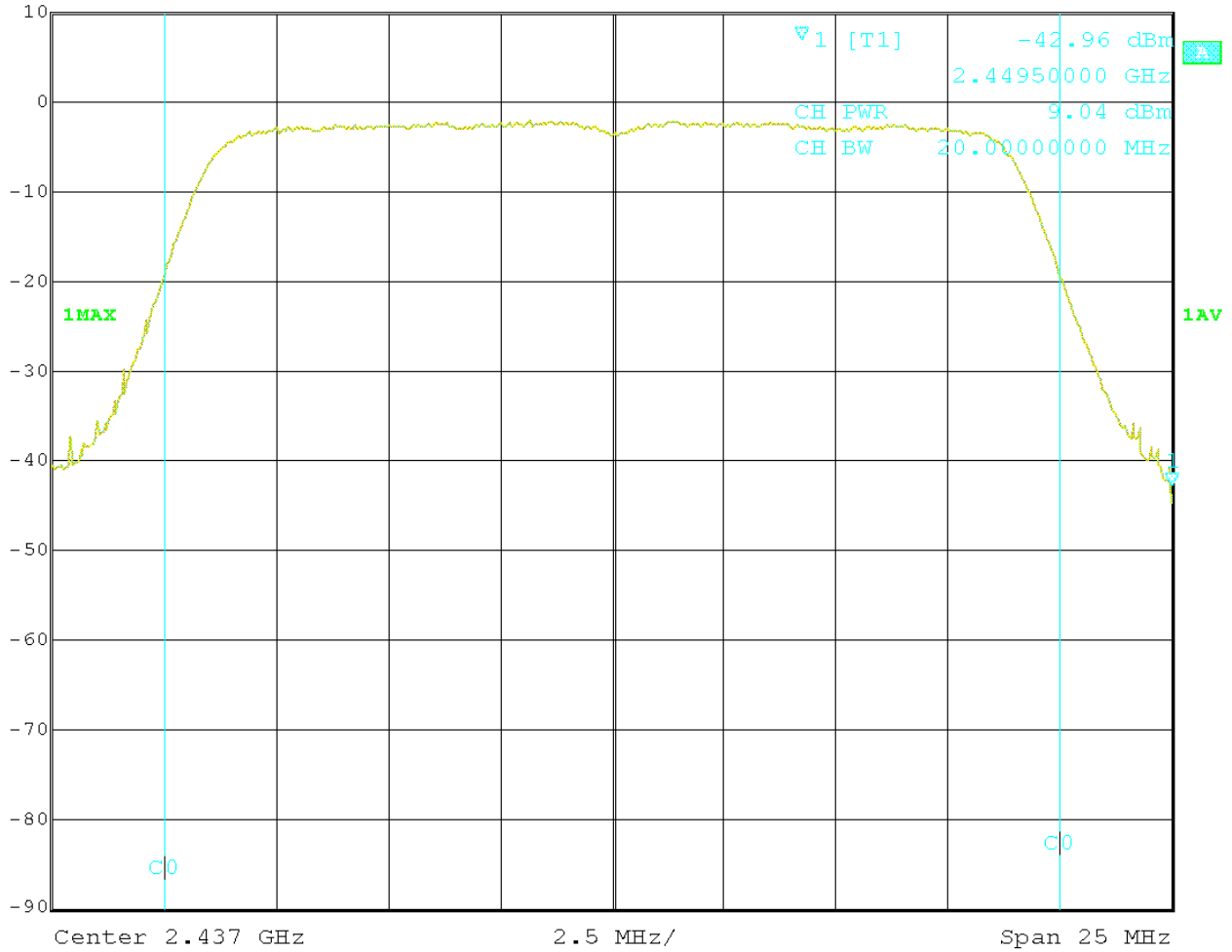


Date: 29.JUN.2012 21:24:31

### 2437 802.11n Average Power – 9.04 dBm



Ref Lvl	10 dBm	Marker 1 [T1]	-42.96 dBm	RBW	1 MHz	RF Att	20 dB
			2.44950000 GHz	VBW	3 MHz	Unit	dBm
				SWT	5 ms		

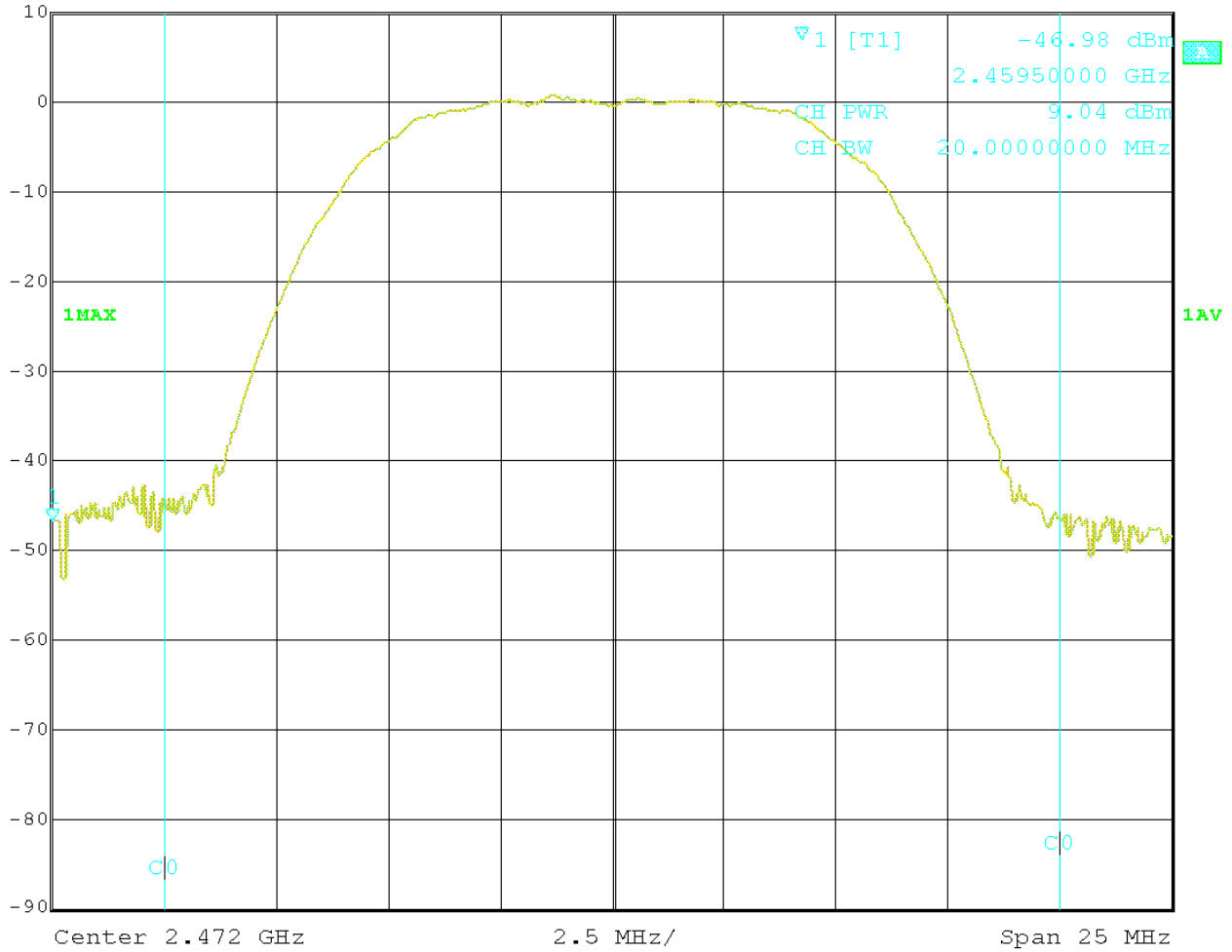


Date: 29.JUN.2012 21:38:18

### 2472 802.11b Average Power – 9.04 dBm



Ref Lvl	10 dBm	Marker 1 [T1]	-46.98 dBm	RBW	1 MHz	RF Att	20 dB
			2.45950000 GHz	VBW	3 MHz	Unit	dBm
				SWT	5 ms		

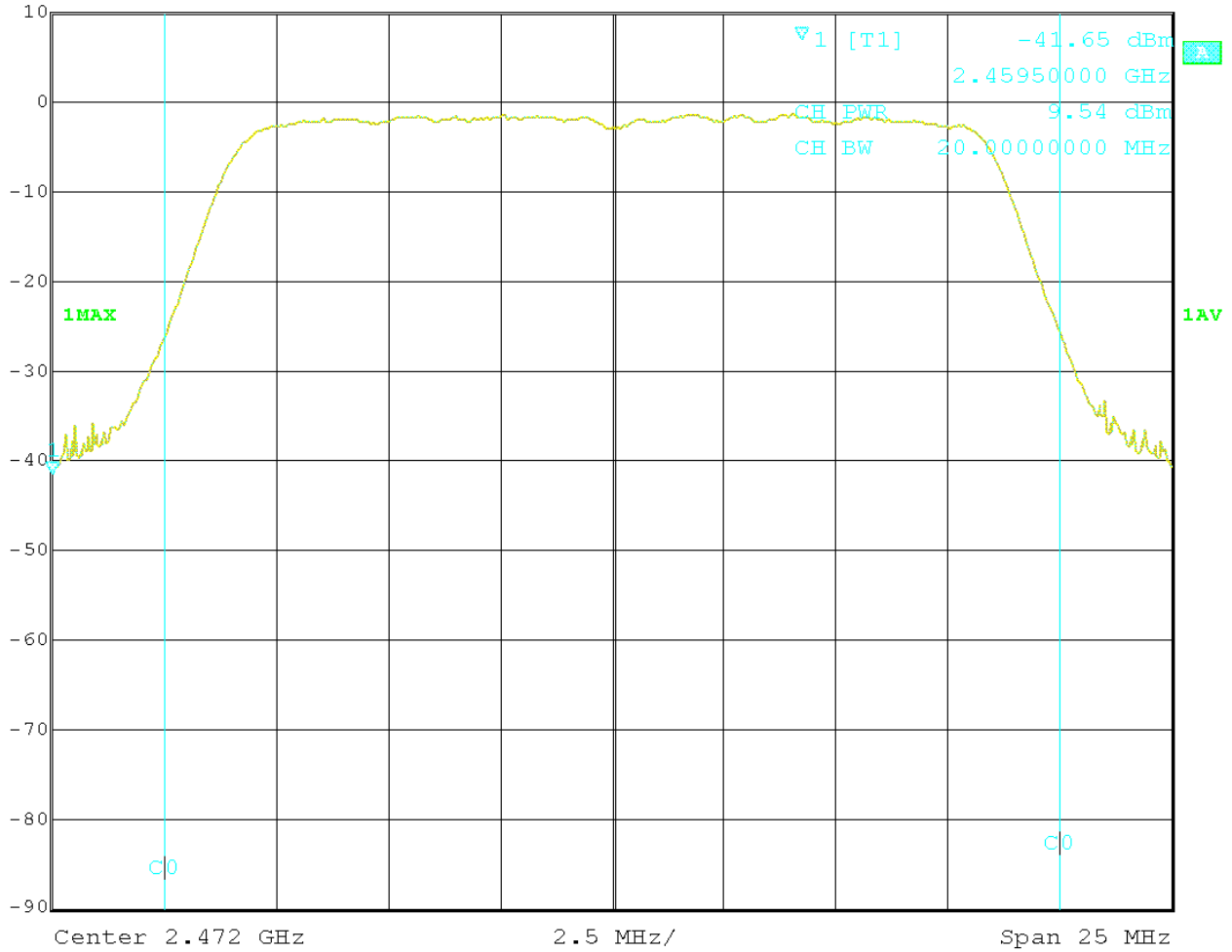


Date: 29.JUN.2012 21:32:15

### 2472 802.11g Average Power – 9.54 dBm



Ref Lvl	10 dBm	Marker 1 [T1]	-41.65 dBm	RBW	1 MHz	RF Att	20 dB
			2.45950000 GHz	VBW	3 MHz	Unit	dBm
				SWT	5 ms		

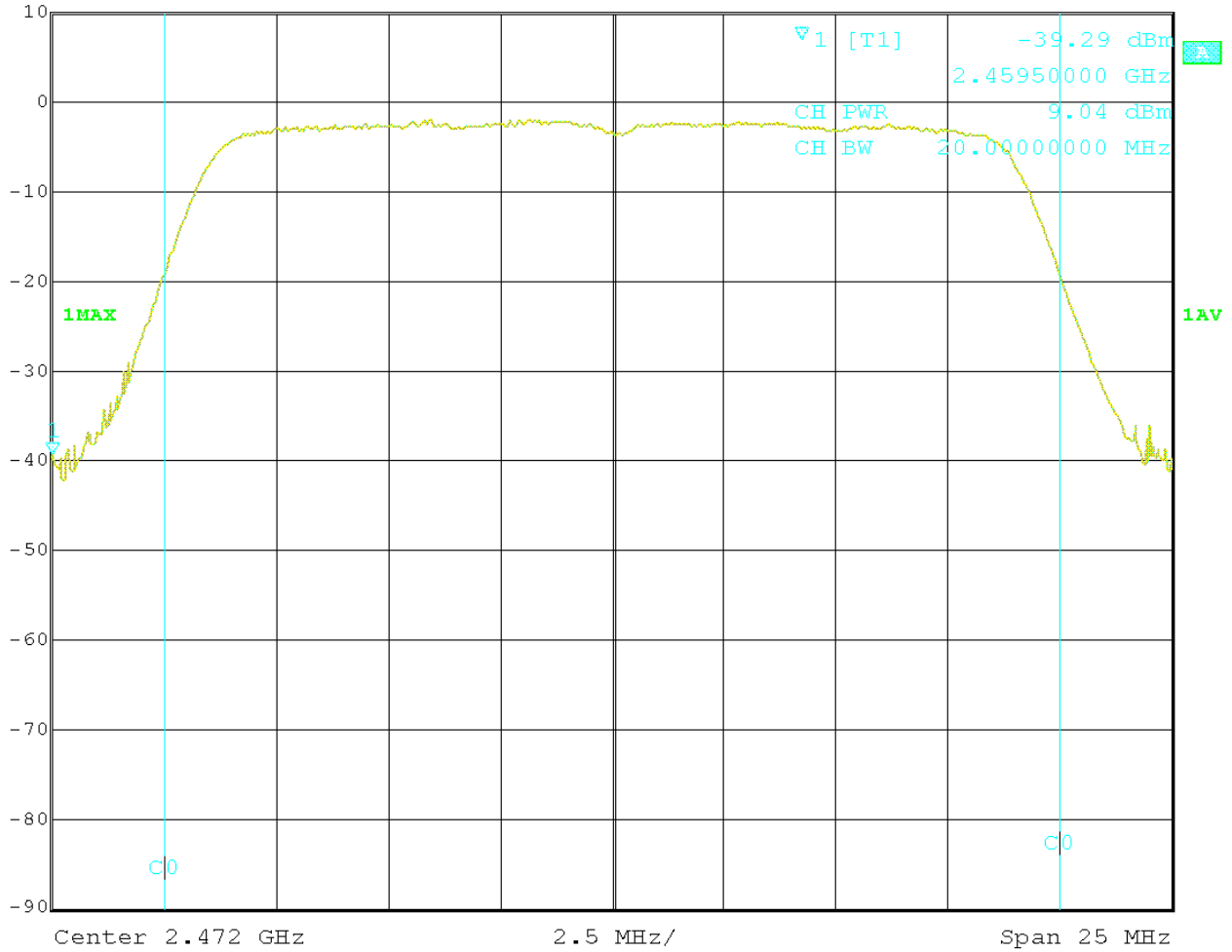


Date: 29.JUN.2012 21:20:58

### 2472 802.11n Average Power – 9.04 dBm



Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	20 dB
10 dBm	-39.29 dBm	VBW	3 MHz		
	2.45950000 GHz	SWT	5 ms	Unit	dBm



Date: 29.JUN.2012 21:37:01

## POWER DENSITY

EUT	SOMO 655
Test setup	A (conducted)
Temp, Humidity, Air Pressure	68° F, 30.26
Date of Measurement	5/21/12
Measurement Procedure	KDB 558074 D01 5.3.1 PKPSD
Measured by	Bob Cole
Result	PASSED

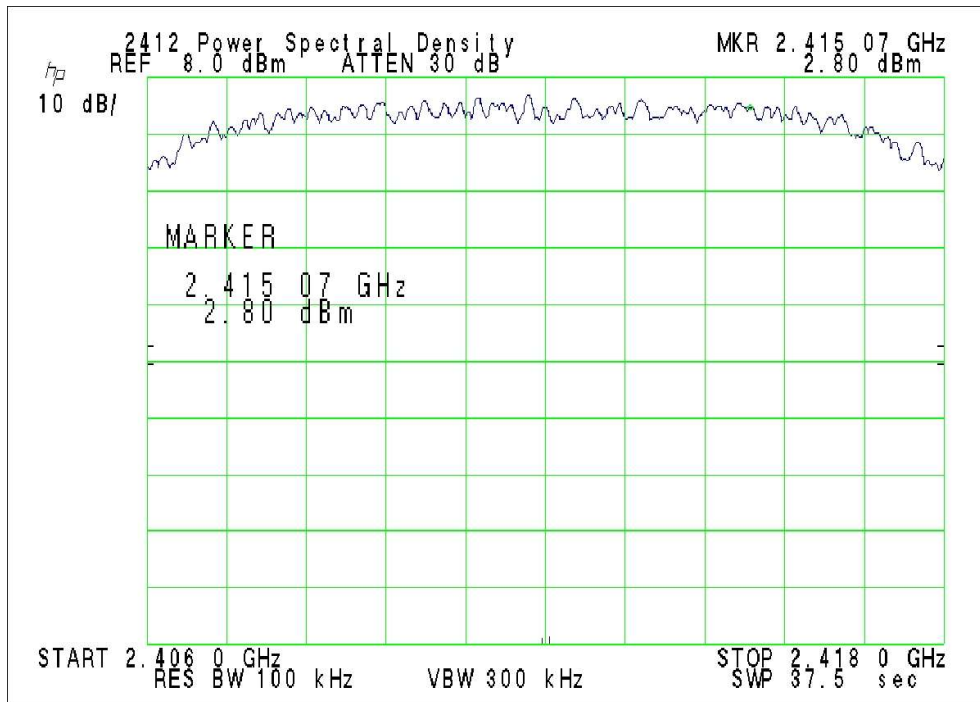
Freq. Band	Test Type	RBW	VBW
2412 - 2472	PSD	100 KHz	300 KHz

RSS 210 Section	CFR Section	Description	Results
A8.2(b)	15.247 (e)	Max Spectral Power Density = 8 dBm	PASSED

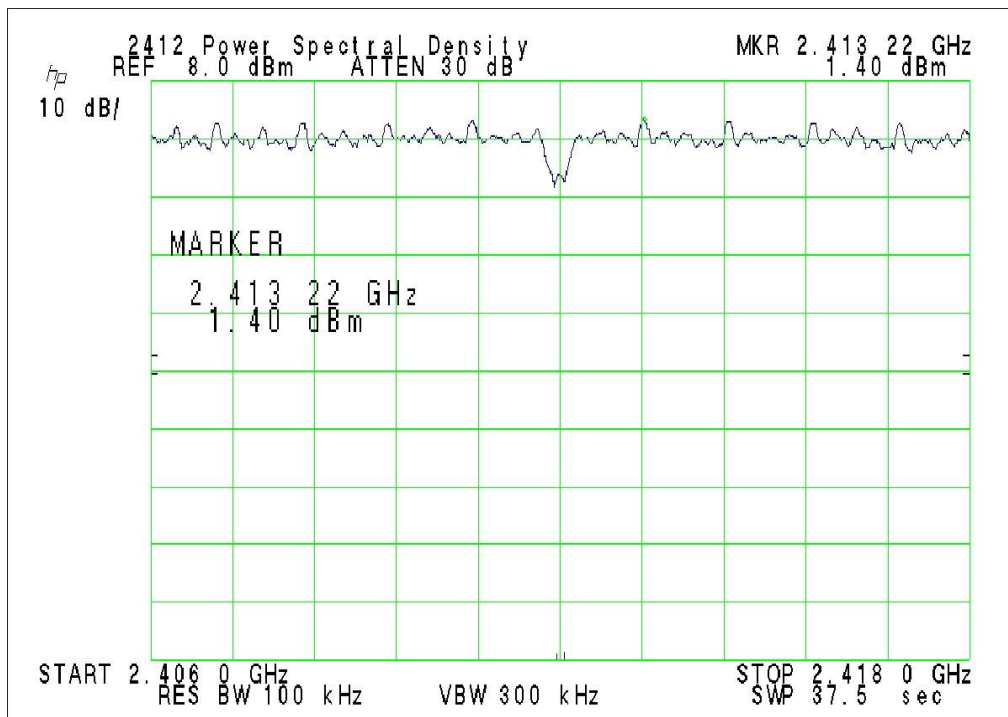
Mode	Data Rate	Modulation	Max Power Spectral Density (dBm) (CH 1)	Bandwidth Correction Factor	Power Spectral Density
Channel 1	11	CCK	2.80	-15.20	-12.40
Channel 6	11	CCK	2.70	-15.20	-12.50
Channel 13	11	CCK	2.2	-15.20	-13.00
Channel 1	54	OFDM	1.40	-15.20	-13.80
Channel 6	54	OFDM	-0.90	-15.20	-16.10
Channel 13	54	OFDM	1.00	-15.20	-14.20



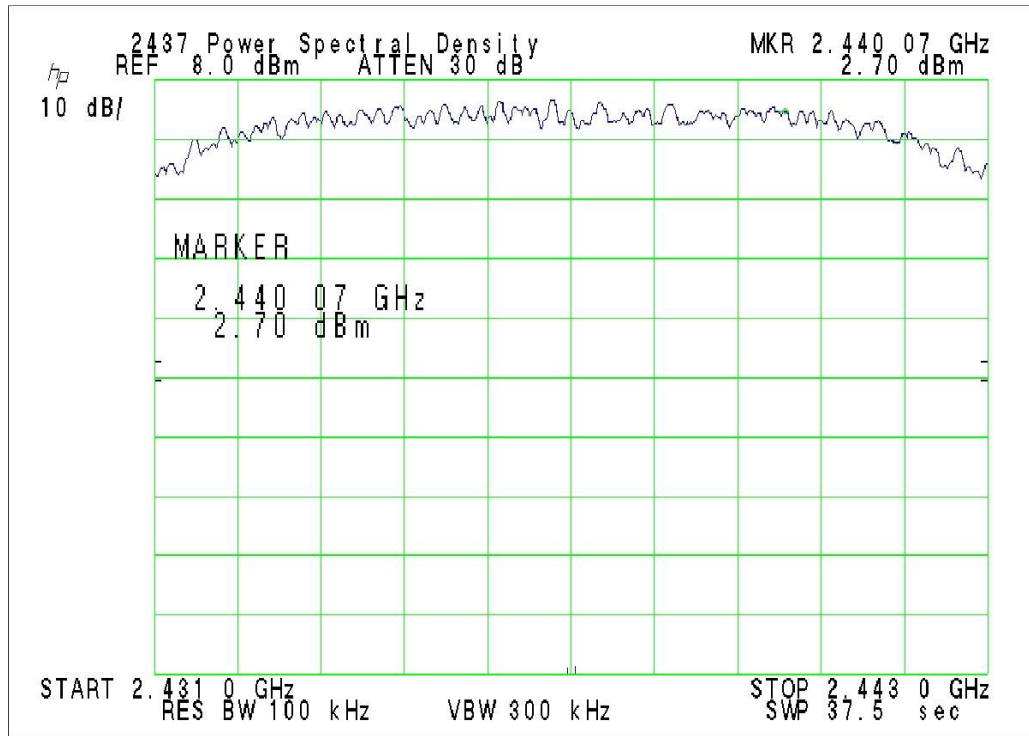
### 2412 CCK 11 Mbps Power Spectral Density



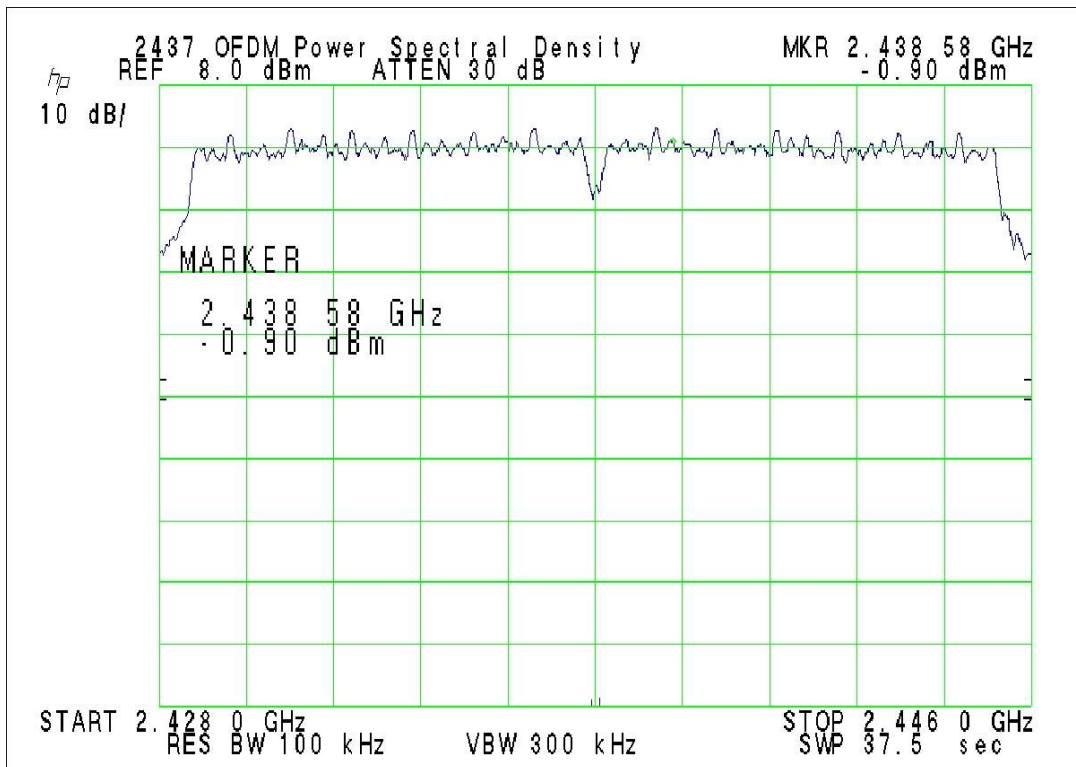
### 2412 OFDM 54 Mbps Power Spectral Density



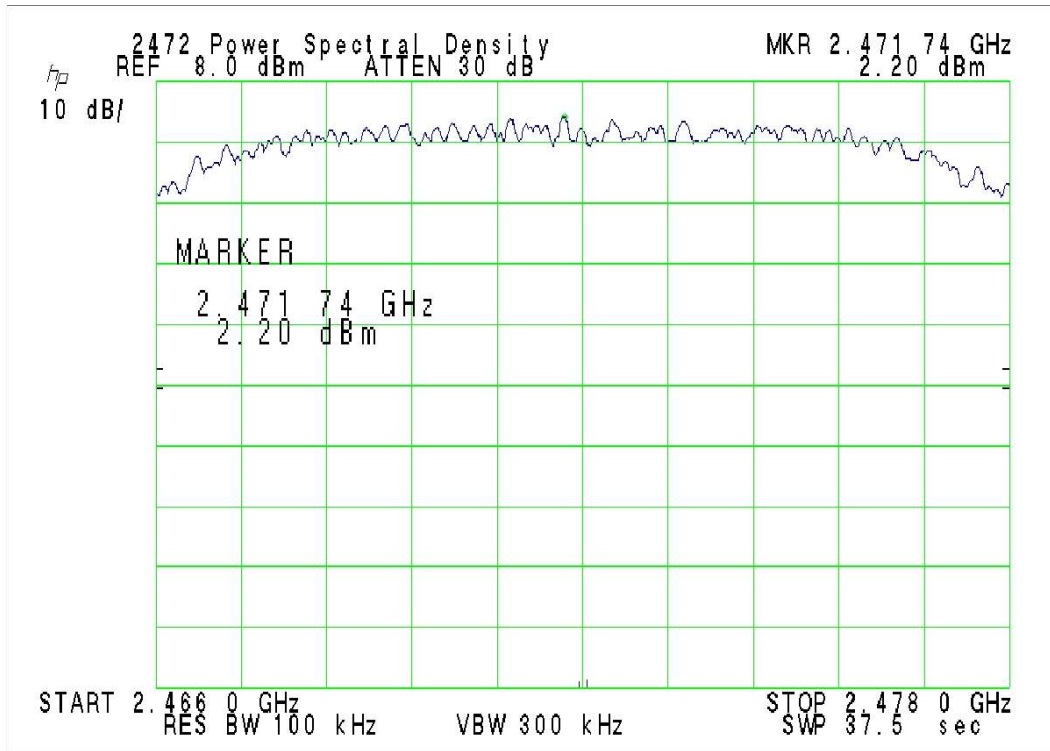
### 2437 CCK 11 Mbps Power Spectral Density



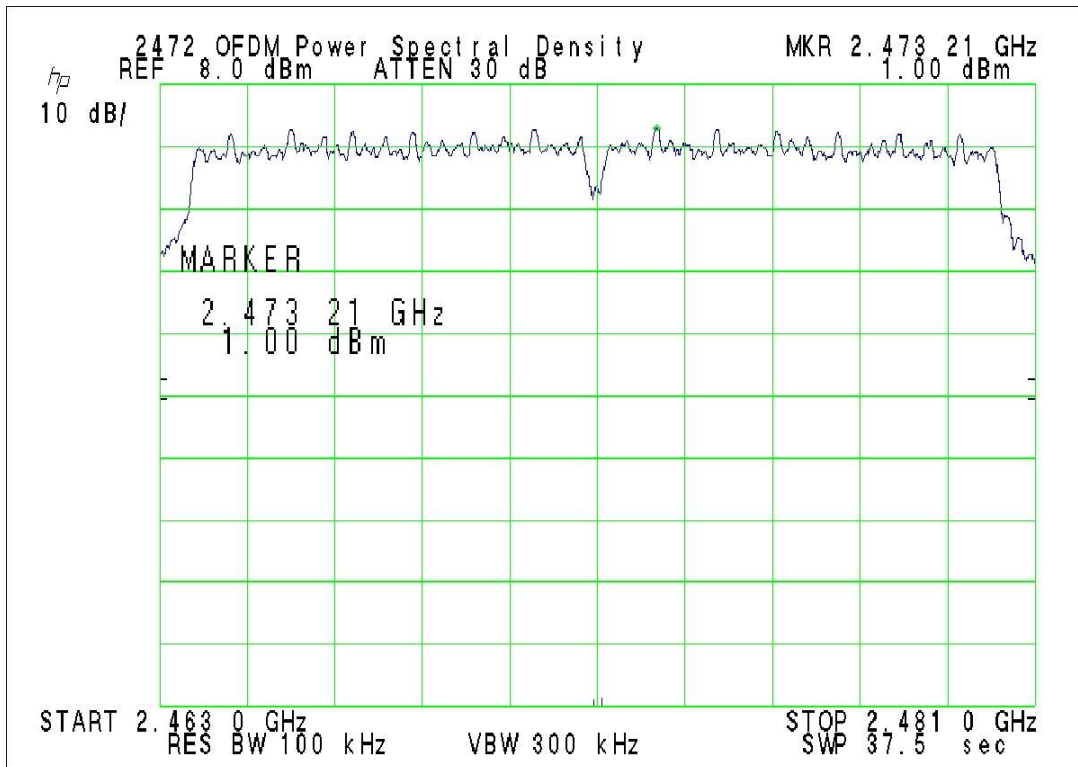
### 2437 CCK 54 Mbps Power Spectral Density



### 2472 CCK 11 Mbps Power Spectral Density



### 2472 CCK 54 Mbps Power Spectral Density



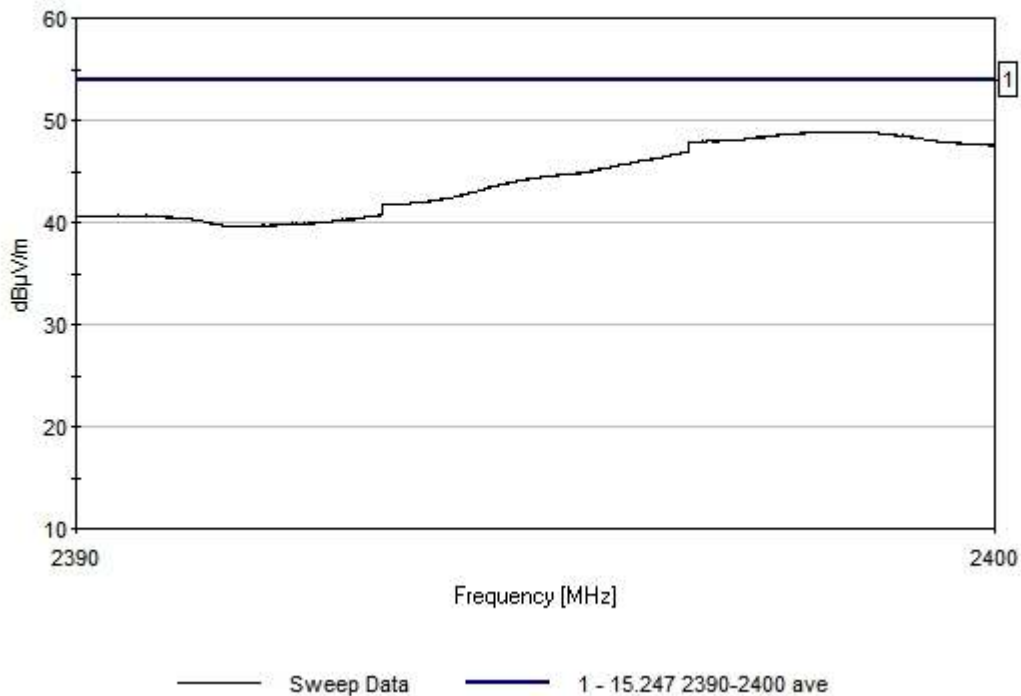
## ADJACENT RESTRICTED BANDWIDTH 2390 – 2400 MHz

### Measurement Bandwidths

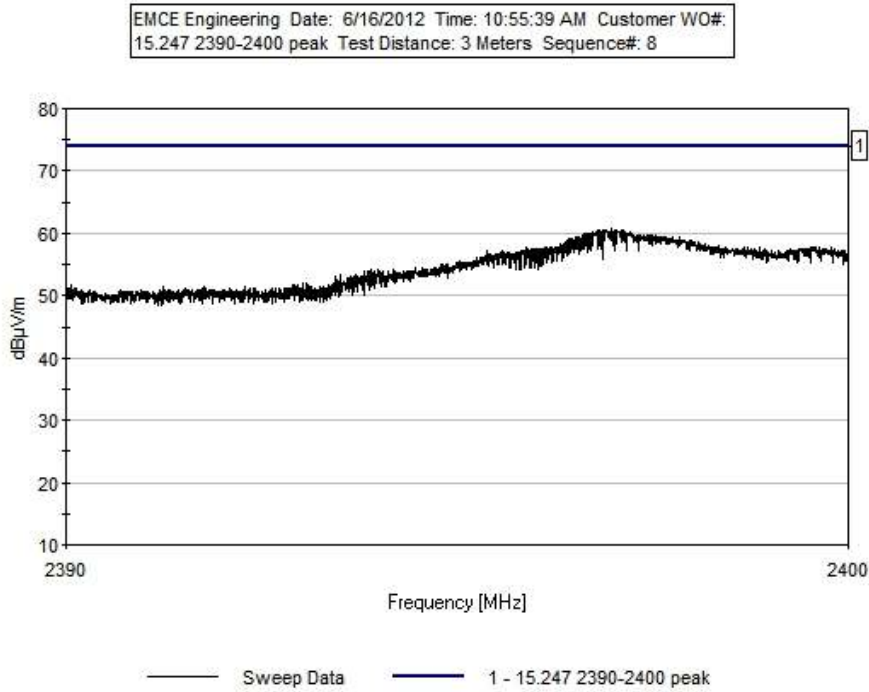
Type	Average	Peak	15.247(d)
RBW	1 MHz	1 MHz	100 kHz
VBW	10 Hz	1 MHz	300 kHz

### Channel 1 / 2412 MHz CCK – Average

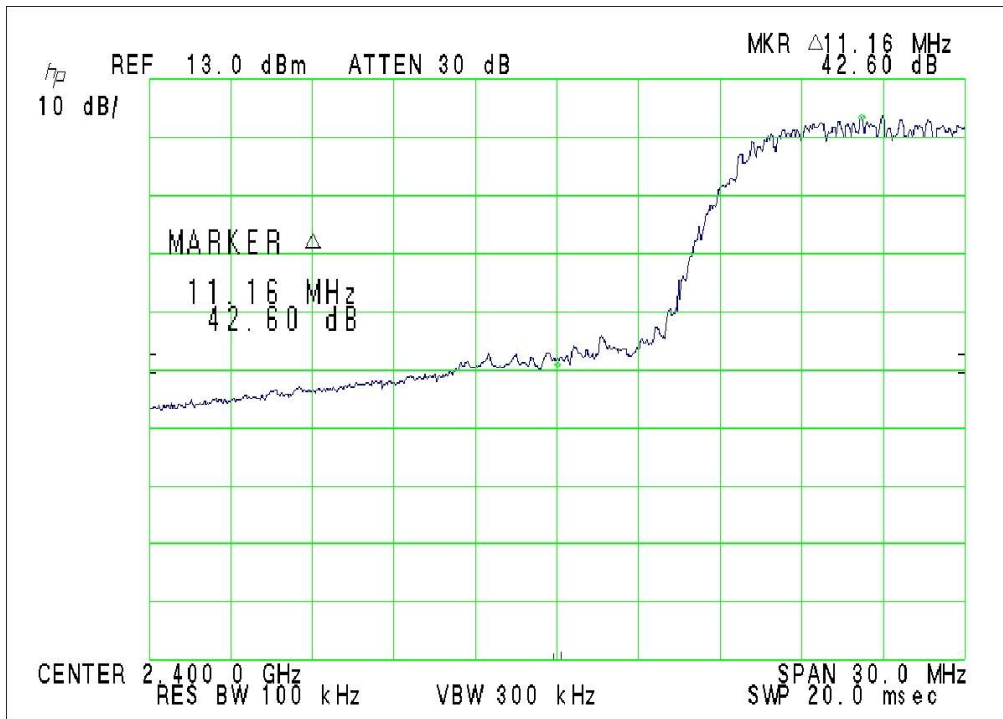
EMCE Engineering Date: 6/16/2012 Time: 10:58:51 AM Customer WO#: 15.247 2390-2400 ave Test Distance: 3 Meters Sequence#: 9



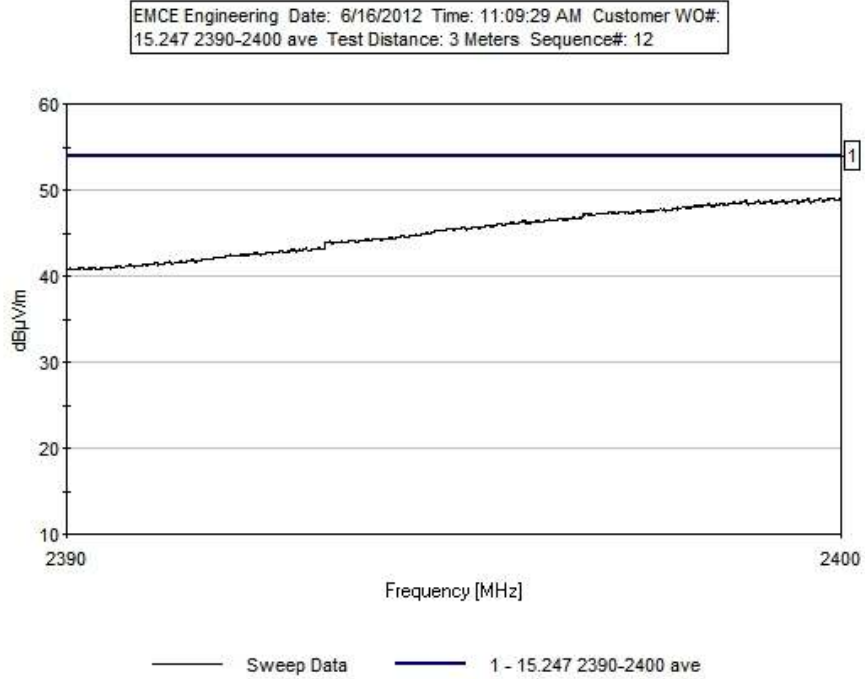
### Channel 1 / 2412 MHz CCK / Peak



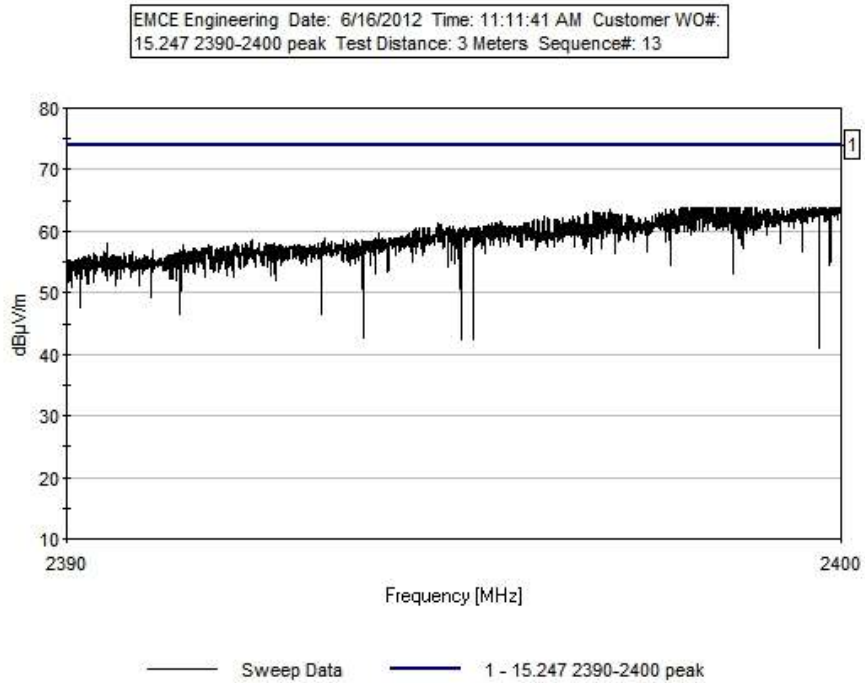
### Channel 1 / 2412 MHz CCK / 15.247(d) - Delta



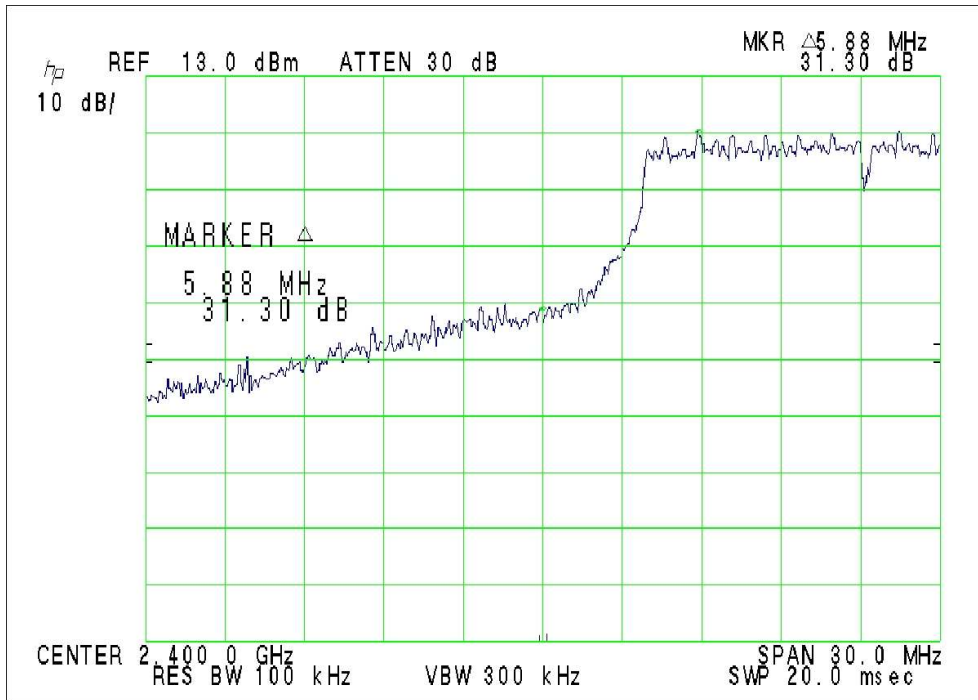
### Channel 1 / 2412 MHz OFDM / Average



### Channel 1 / 2412 MHz OFDM / Peak

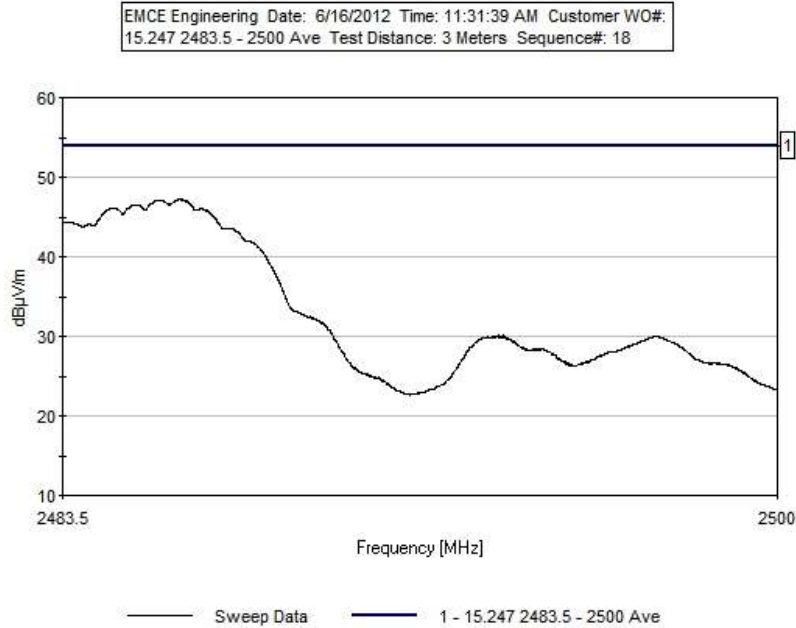


### Channel 1 / 2412 MHz OFDM / 15.247(d) - Delta

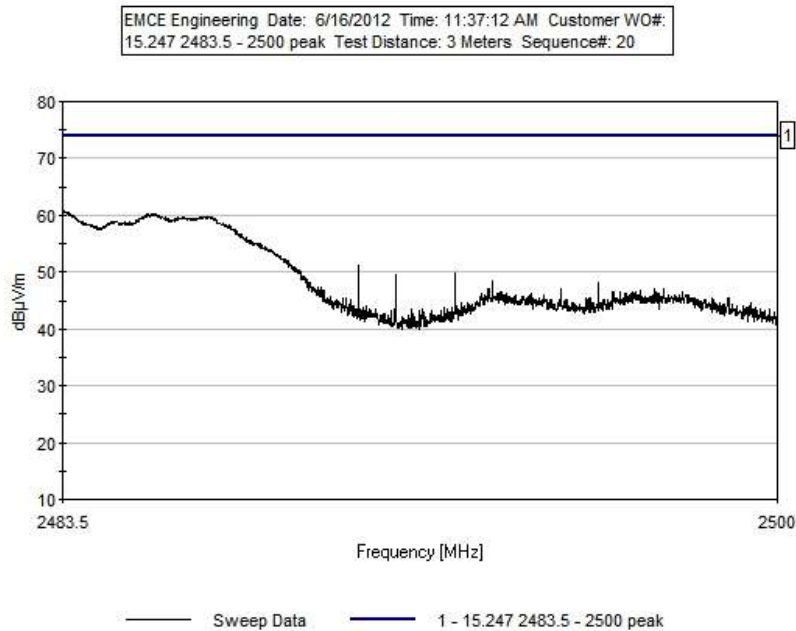


## Adjacent Restricted Bandwidth 2483.5 - 2500 MHz

### Channel 13 / 2472 MHz CCK Average

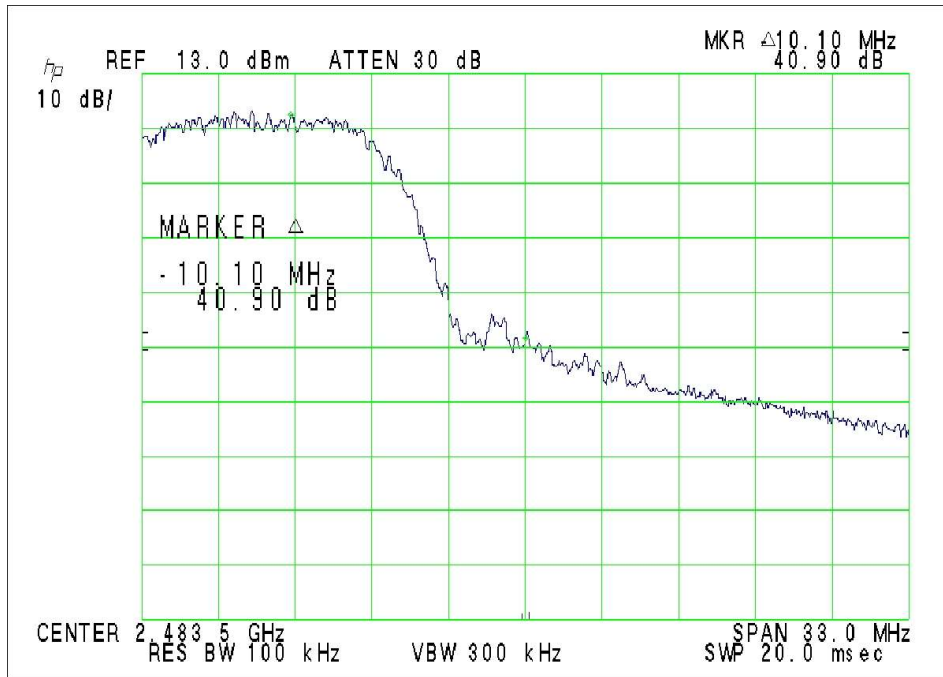


### Channel 13 / 2472 MHz CCK / Peak

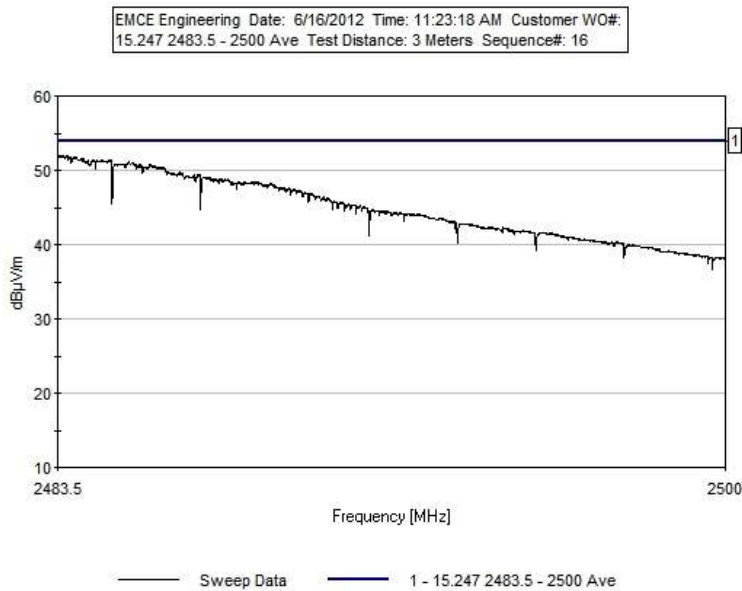




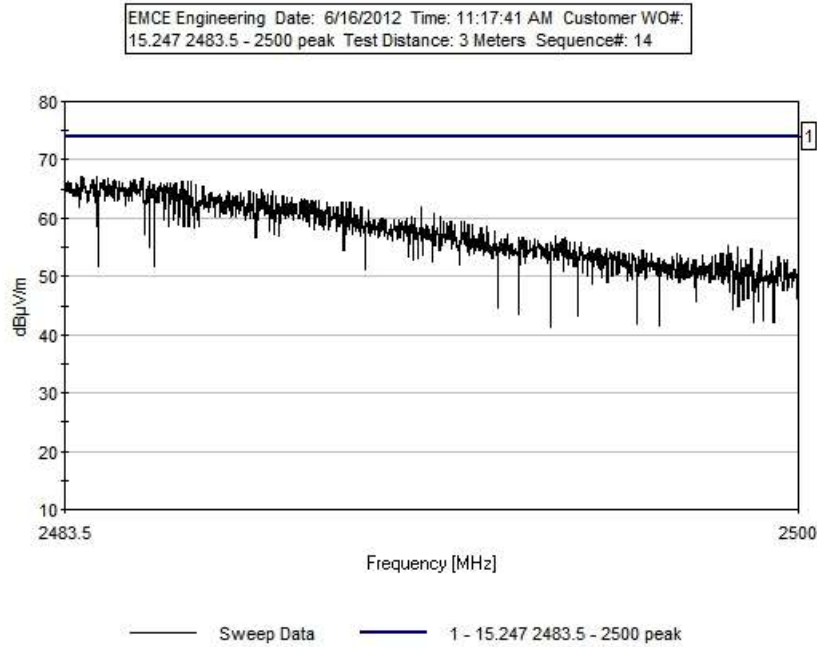
### Channel 13 / 2472 MHz CCK 15.247(d) - Delta



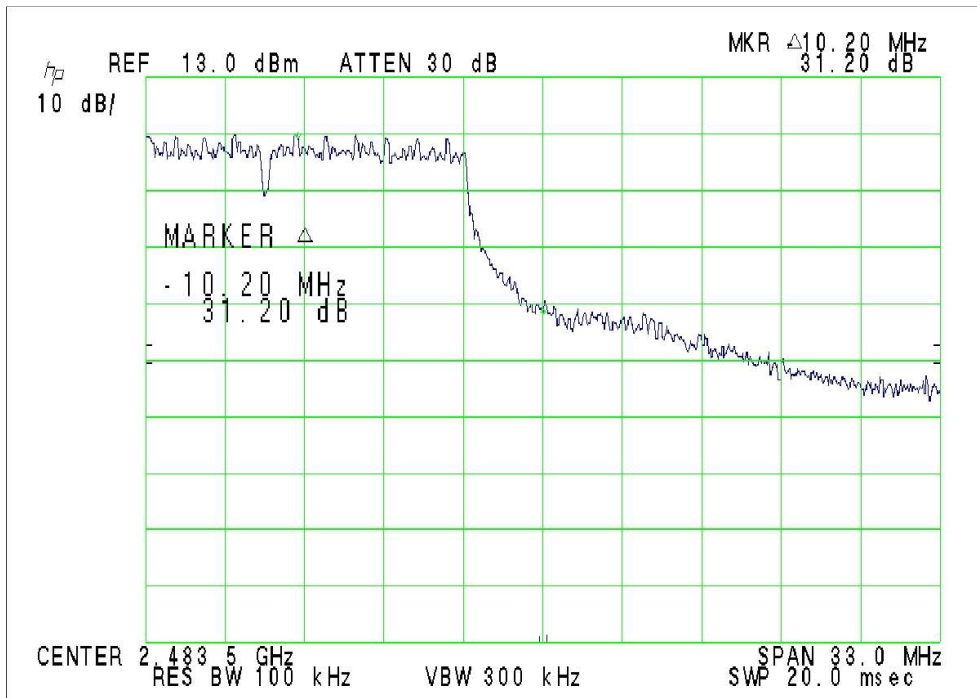
### Channel 13 / 2472 MHz OFDM / Average



### Channel 13 / 2472 MHz OFDM / Peak



### Channel 13 / 2472 MHz OFDM/ 15.247(d)



## CONDUCTED SPURIOUS MEASUREMENTS

Restricted Band Measurements [CFR 47, 15.247(d) and RSS-210 A8.5]

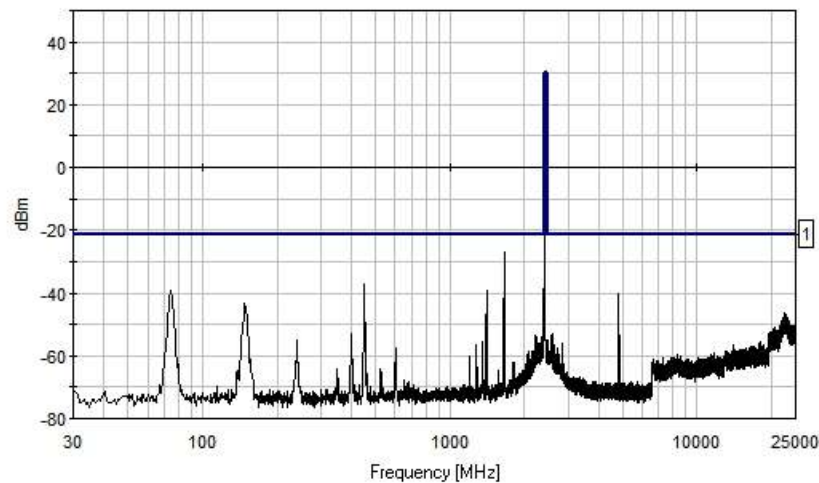
EUT	SOMO 655
Test setup	B (Radiated)
Temp, Humidity, Air Pressure	62° F, 30.45
Date of Measurement	5/20/12
Measurement Method	KDB 558074 D01 5.4.2.1 Unwanted Emissions
Measured by	Bob Cole
Result	PASSED

Freq. Band	Test Type	RBW	VBW
30 - 25000	Peak	1MHz	1 MHz

Worst case, channel / modulation type data presented for Channels 1, 6, 13:

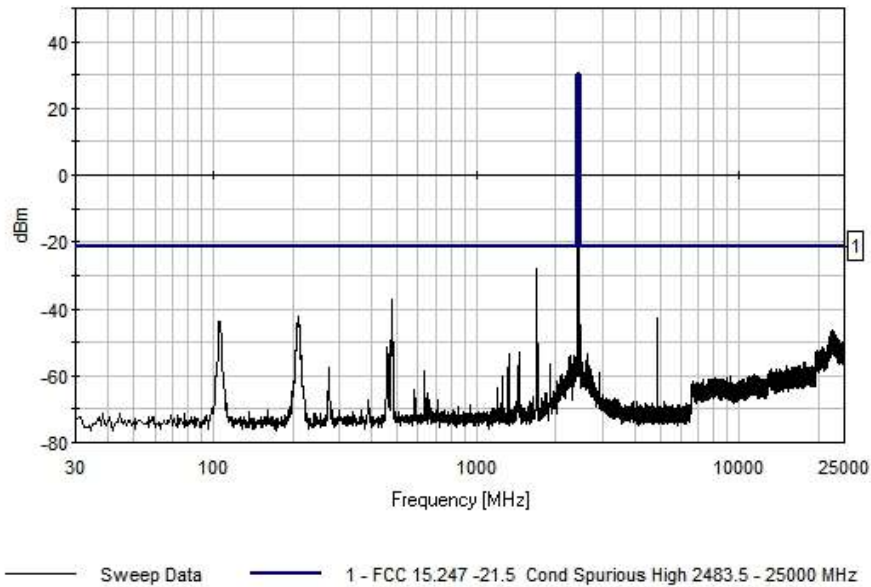
Cond. Spurious Emissions 30 - 25000 MHz; Channel 1 / 2412 MHz / CCK, 11 Mbps

EMCE Engineering Date: 6/15/2012 Time: 11:33:10 AM Customer WO#: FCC 15.247 -21.5 Cond Spurious High 2483.5 - 25000 MHz Test Lead: Black 120V 60Hz Sequence#: 1



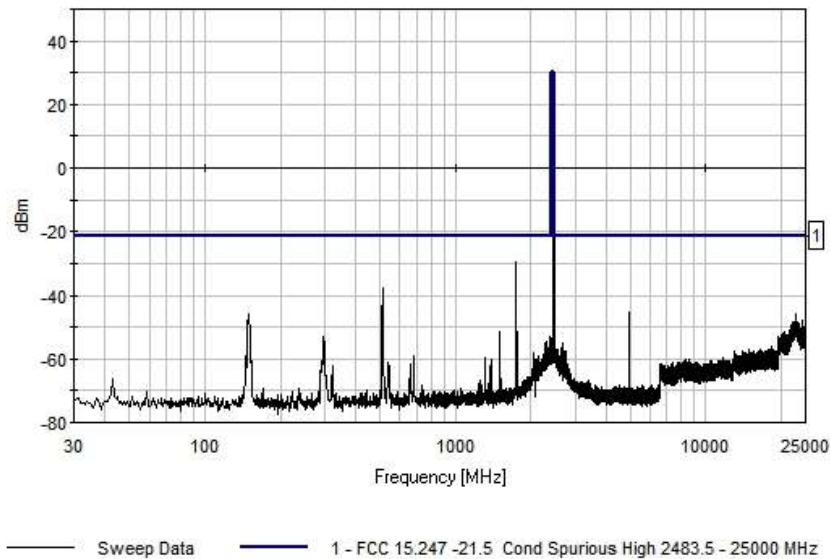
Cond. Spurious Emissions 30 - 25000 MHz; Channel 6 / 2437 MHz / OFDM, 54 Mbps

EMCE Engineering Date: 6/15/2012 Time: 11:58:03 AM Customer WO#: FCC 15.247 -21.5 Cond Spurious High 2483.5 - 25000 MHz Test Lead: Black 120V 60Hz Sequence#: 2



Cond. Spurious Emissions 30 - 25000 MHz; Channel 13 / 2472 MHz / OFDM, MCS7

EMCE Engineering Date: 6/15/2012 Time: 12:20:36 PM Customer WO#: FCC 15.247 -21.5 Cond Spurious High 2483.5 - 25000 MHz Test Lead: Black 120V 60Hz Sequence#: 3



## RESTRICTED BAND RADIATED EMISSIONS MEASUREMENTS

Restricted Band Measurements [CFR 47, 15.247(d) and RSS-210 A8.5]

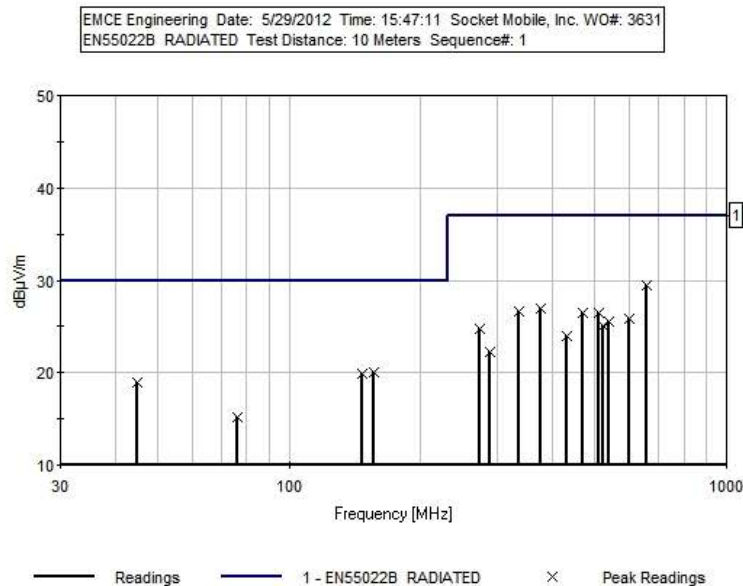
EUT	SOMO 655
Test setup	B (Radiated)
Temp, Humidity, Air Pressure	62° F, 30.45
Date of Measurement	5/20/12
Measurement Method	KDB 558074 D01 5.4.1.2 Unwanted Emissions
Measured by	Bob Cole
Result	PASSED

Type	Average	Peak
RBW	1 MHz	1 MHz
VBW	10 Hz	1 MHz

Radiated emissions were examined in the band of 30 MHz – 25 GHz. EUT was positioned in three orthogonal axes, the turntable rotated 360 degrees, and the antenna elevated from 1 – 4 meters. Emissions were evaluated on various transmitting channels (1, 6, 13), with varied types of modulation (CCK, OFDM). Worst case data is presented:

Restricted Band Spurious Radiated Emissions 30 – 1000 MHz

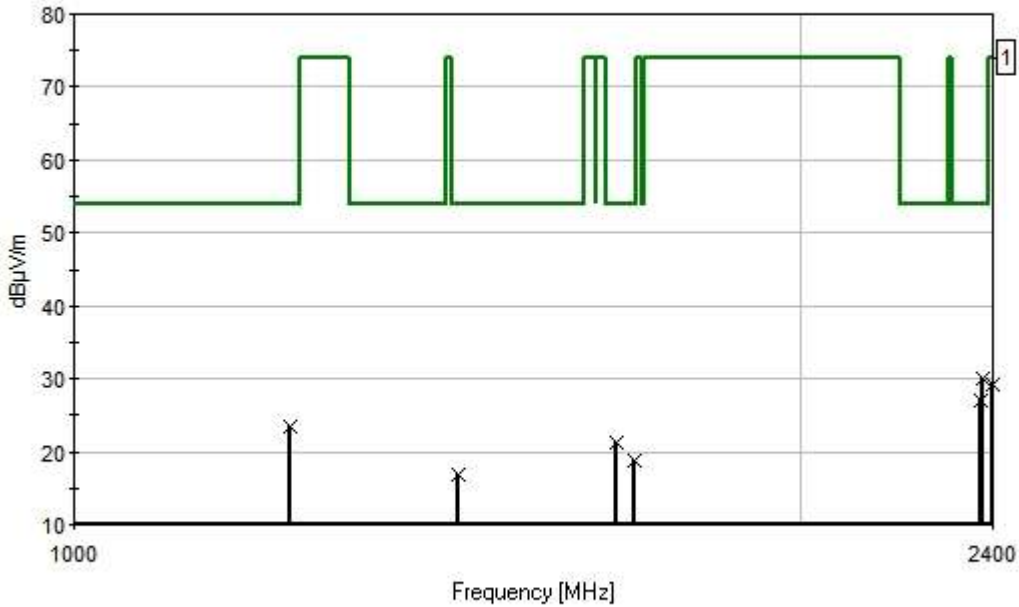
[Channel 6 / 2462 MHz OFDM, MCS7]



# Restricted Band Spurious Radiated Emissions 1000 - 2400 MHz

[Channel 6 / 2462 MHz OFDM, 54 Mbps]

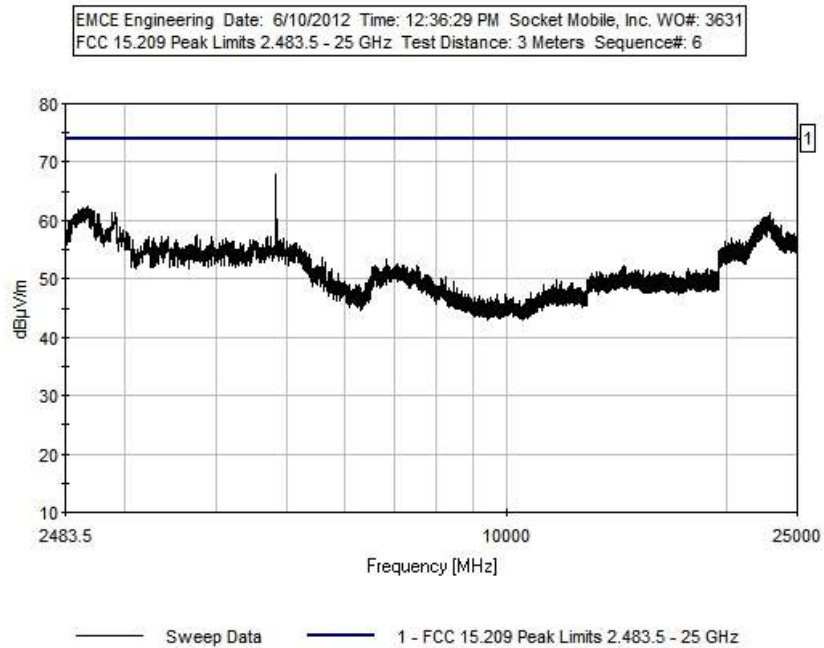
EMCE Engineering Date: 5/30/2012 Time: 11:31:30 Socket Mobile, Inc. WO#: 3631  
FCC Rad Restricted Band 1000 - 2400 Test Distance: 3 Meters Sequence#: 1



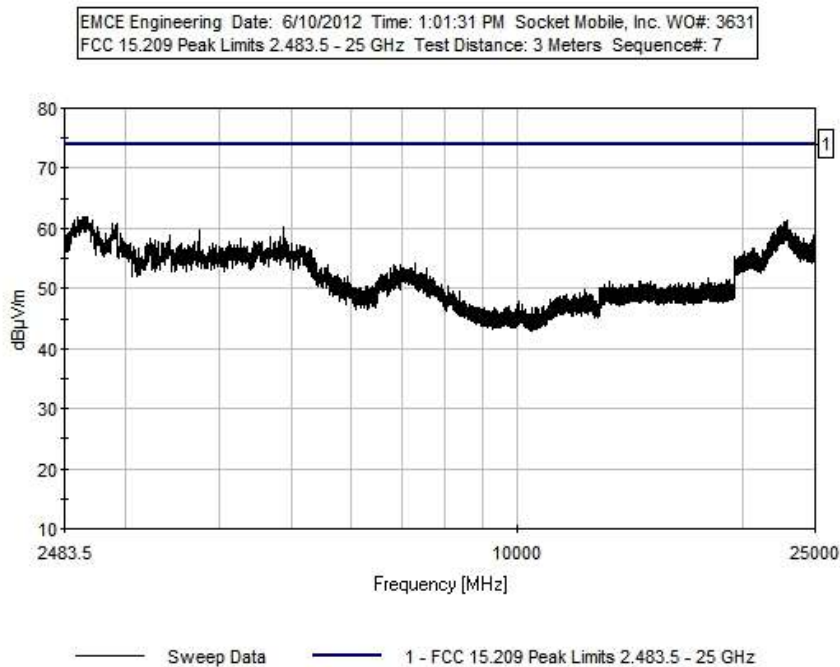
— Readings    — 1 - FCC Rad Restricted Band 1000 - 2400    × Peak Readings

# Restricted Band Spurious Radiated Emissions 2483.5 - 25000 MHz

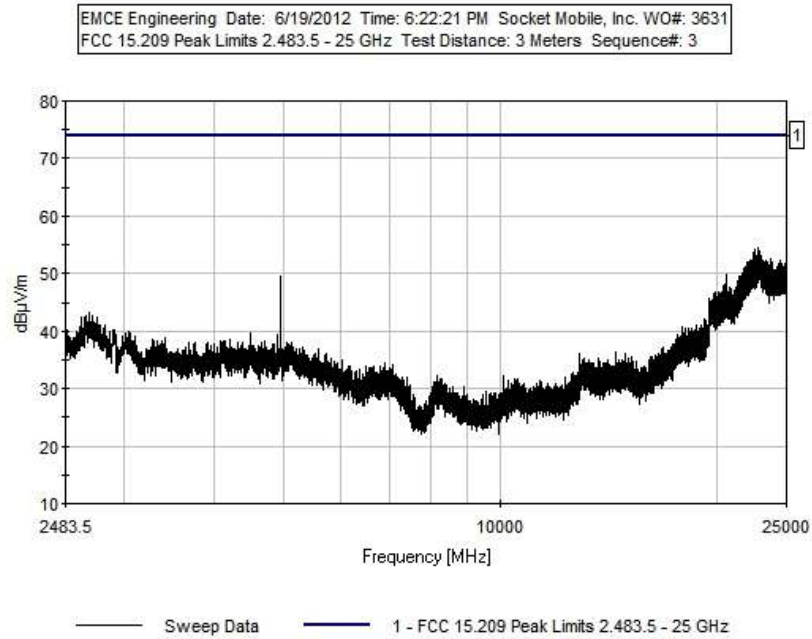
## Channel 1 / 2412 / CCK 11Peak



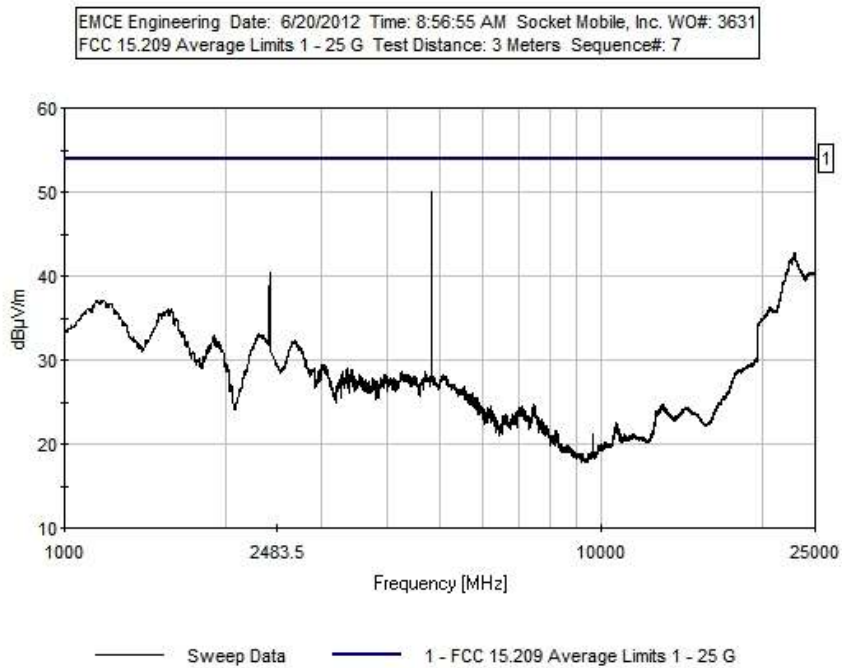
## Channel 6 / 2437 MHz CCK Peak



### Channel 13 / 2472 MHz CCK Peak



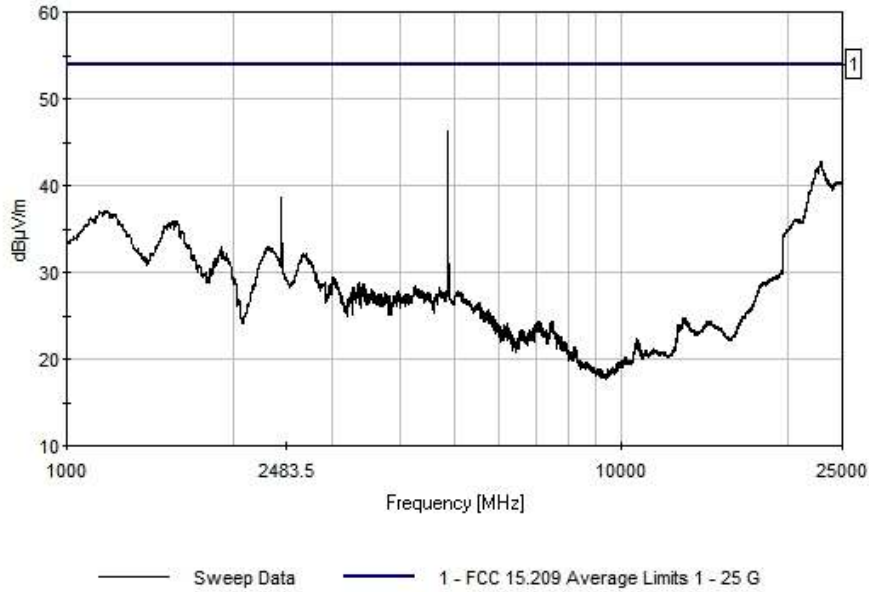
### Channel 1 / 2412 MHz CCK Average





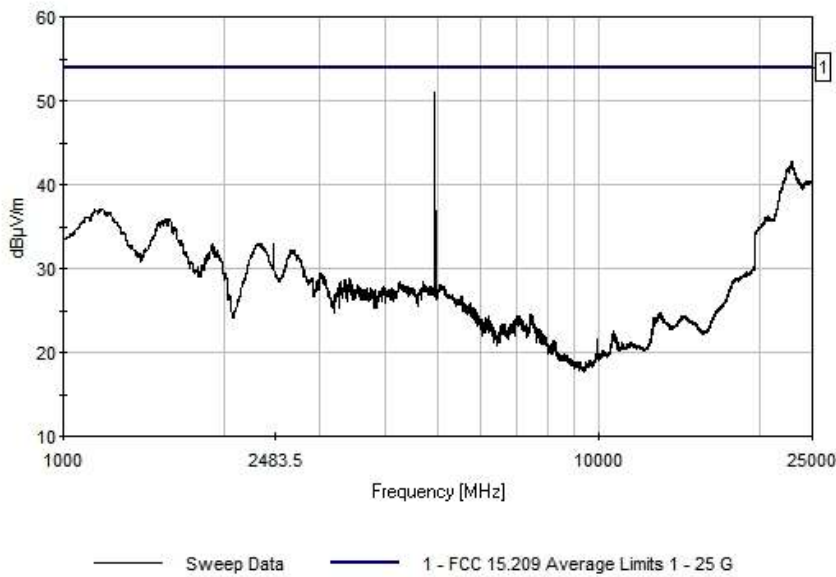
### Channel 6 / 2437 MHz CCK Average

EMCE Engineering Date: 6/20/2012 Time: 10:03:55 AM Socket Mobile, Inc. WO#: 3631  
FCC 15.209 Average Limits 1 - 25 G Test Distance: 3 Meters Sequence#: 8

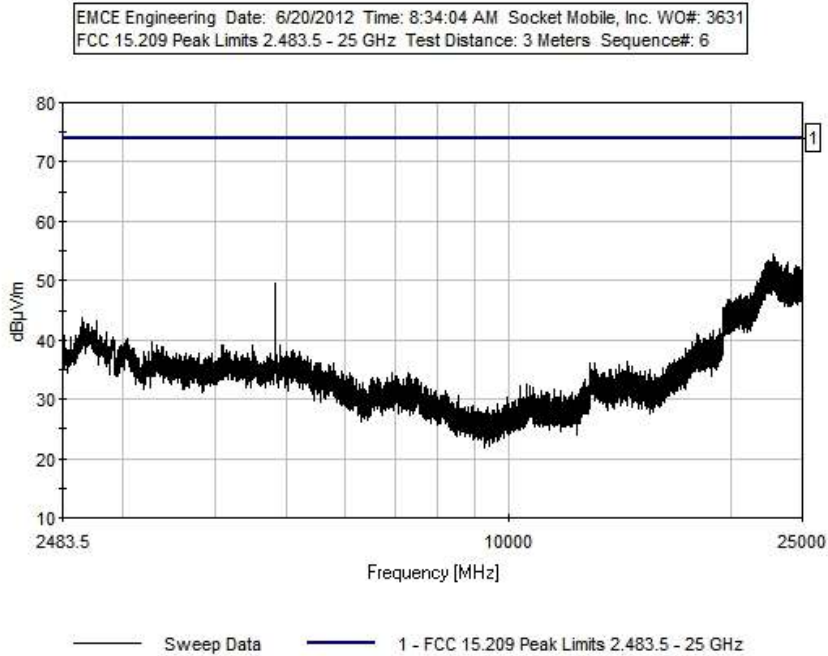


### Channel 13 / 2472 MHz CCK Average

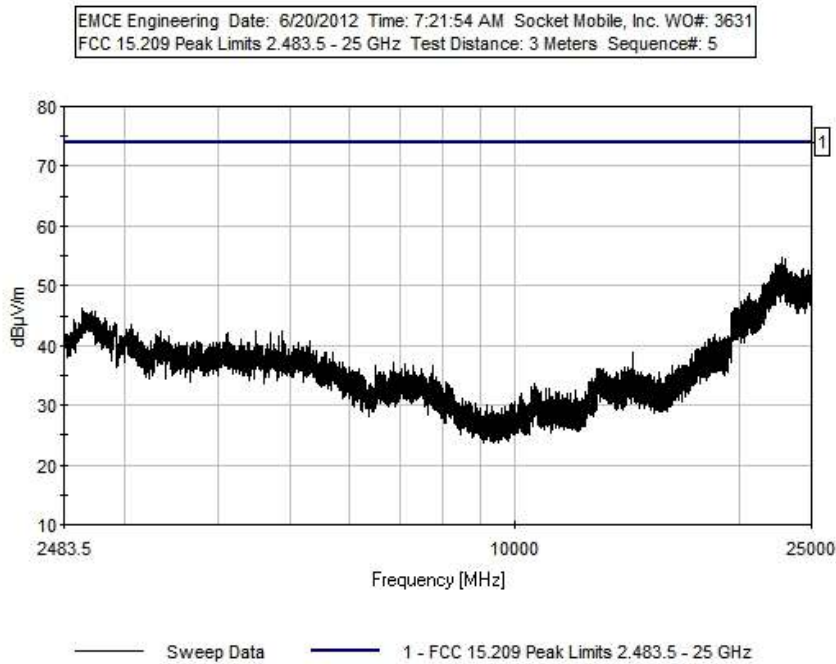
EMCE Engineering Date: 6/20/2012 Time: 10:47:41 AM Socket Mobile, Inc. WO#: 3631  
FCC 15.209 Average Limits 1 - 25 G Test Distance: 3 Meters Sequence#: 9



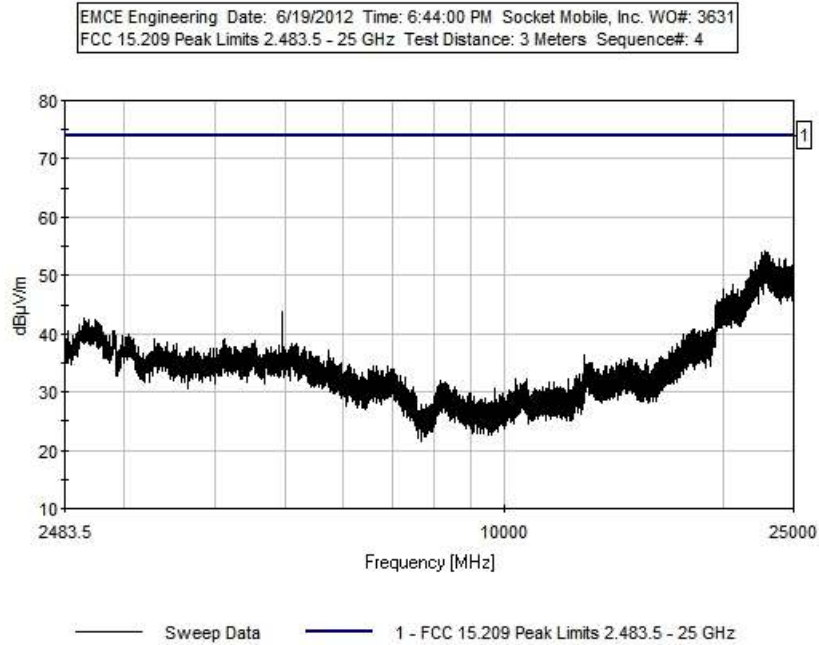
### Channel 1 / 2412 MHz OFDM Peak



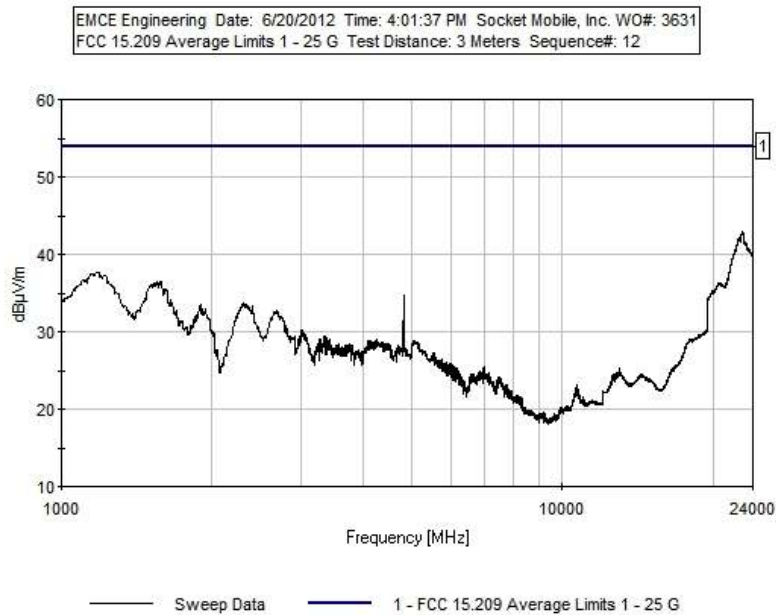
### Channel 6 / 2437 MHz OFDM Peak



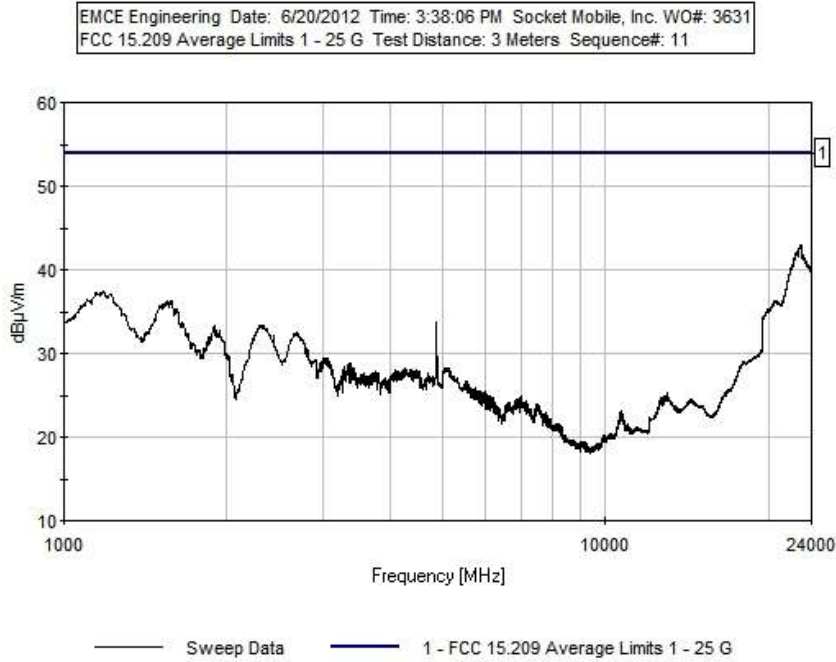
### Channel 13 / 2472 MHz OFDM Peak



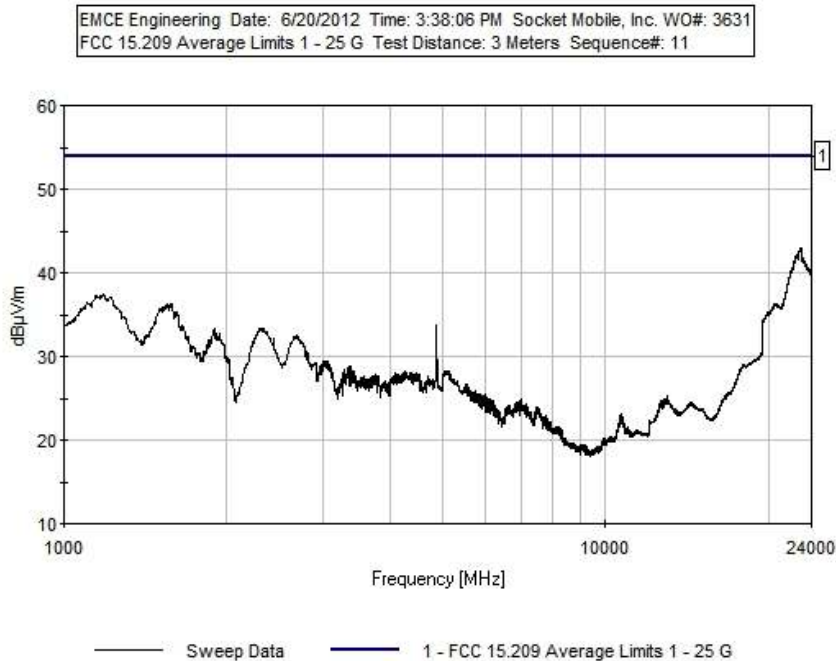
### Channel 1 / 2412 MHz OFDM Average



### Channel 6 / 2437 MHz OFDM Average



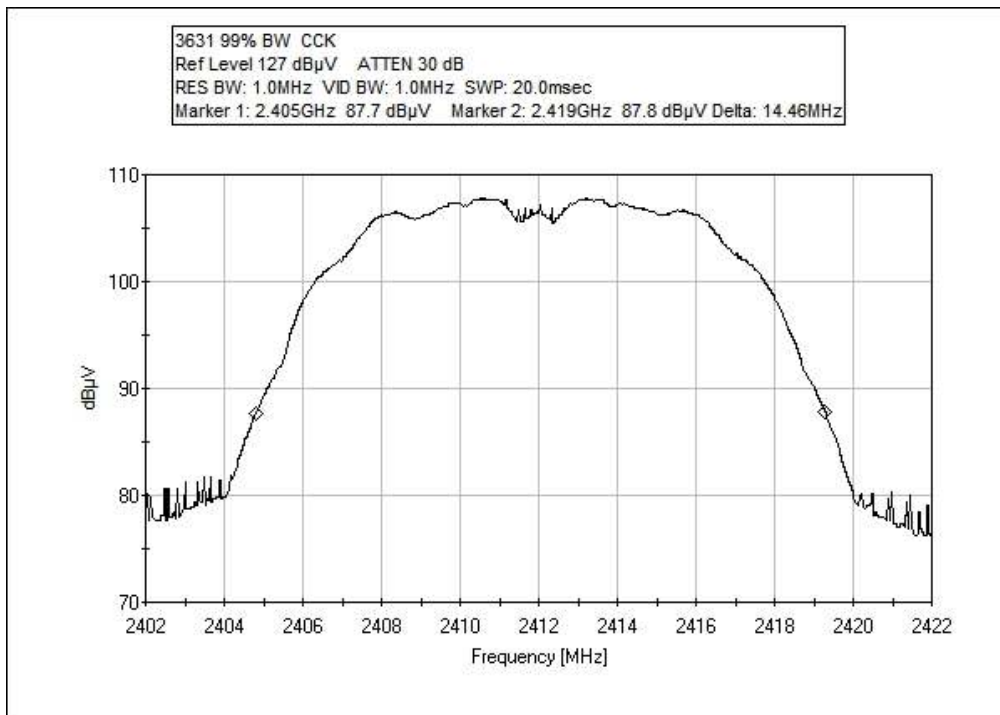
### Channel 13 / 2472 MHz OFDM Average



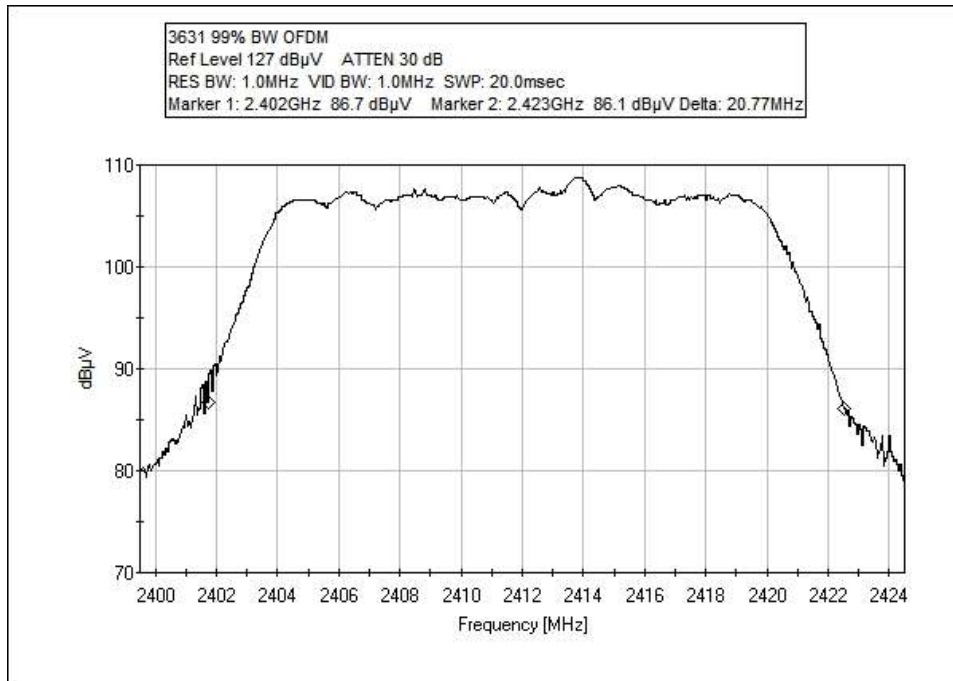
## 99% Bandwidth

EUT	SOMO 655
Test setup	B (Radiated)
Temp, Humidity, Air Pressure	62° F, 30.45
Date of Measurement	6/16/12
Measurement Method	RSS-Gen
Measured by	Bob Cole
Result	For information purposes only

### 99% BW / CCK / 11/ Mbps



# 99% BW / OFDM / 54 Mbps



## AC LINE CONDUCTED EMISSIONS MEASUREMENT

AC Line Conducted Emissions Measurement 150 kHz – 30 MHz

EUT	SOMO 655
Test setup	
Temp, Humidity, Air Pressure	
Date of Measurement	
Measured by	
Result	

N/A – BATTERY POWERED

## 7.0 TEST EQUIPMENT

Antenna Conducted Measurements:

Equipment	Type	Manufacturer	Calibration Date	Calibration Due Date
EMI Analyzer System	84125B	Hewlett-Packard	5/1/12	5/1/14
Spectrum Analyzer	8566B	Hewlett-Packard	5/2/12	5/2/14
Pre-Amp	83051A	Hewlett-Packard	5/17/12	5/17/13
Pre-Amp	83017A	Hewlett-Packard	5/17/12	5/17/13
Pre-Amp	8744D	Hewlett-Packard	5/2/12	5/2/13
Horn Antenna	SAS 200/571	AH Systems	2/19/12	2/19/13
Cable	0.25 meters	Murata	5/10/12	5/10/13

Spurious RF radiated emissions:

Equipment	Type	Manufacturer	Calibration Date	Calibration Due Date
EMI Analyzer System	84125B	Hewlett-Packard	5/1/12	5/1/14
Spectrum Analyzer	8566B	Hewlett-Packard	5/2/12	5/2/14
Antenna	JB6 BiConiLog	Sunol Sciences	2/15/12	2/15/14
Pre-Amp	83051A	Hewlett-Packard	5/17/12	5/17/13
Pre-Amp	83017A	Hewlett-Packard	5/17/12	5/17/13
Pre-Amp	8744D	Hewlett-Packard	5/2/12	5/2/13
Horn Antenna	SAS 200/571	AH Systems	2/19/12	2/19/13
Cable	N – N (30 Meters)	EMCE	5/10/12	5/10/13