



# TEST REPORT

No. I15Z40275-CTE01

for

**Asiatelco Technologies Co.**

**LTE Mobile hotspot**

**Model Name: ALM-N245**

**FCC ID: XYOALM-N245**

with

**Hardware Version: KF1030**

**Software Version: N245V1.0.0B03**

**Issued Date: 2015-5-7**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

**Test Laboratory:**

***FCC 2.948 Listed: No.525429***

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## **CONTENTS**

<b>1. TEST LABORATORY .....</b>	<b>3</b>
<b>1.1. TESTING LOCATION .....</b>	<b>3</b>
<b>1.2. TESTING ENVIRONMENT .....</b>	<b>3</b>
<b>1.3. PROJECT DATA .....</b>	<b>3</b>
<b>1.4. SIGNATURE .....</b>	<b>3</b>
<b>2. CLIENT INFORMATION .....</b>	<b>4</b>
<b>2.1. APPLICANT INFORMATION .....</b>	<b>4</b>
<b>2.2. MANUFACTURER INFORMATION .....</b>	<b>4</b>
<b>3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE) .....</b>	<b>5</b>
<b>3.1. ABOUT EUT .....</b>	<b>5</b>
<b>3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST .....</b>	<b>5</b>
<b>3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST .....</b>	<b>5</b>
<b>3.4. GENERAL DESCRIPTION .....</b>	<b>6</b>
<b>4. REFERENCE DOCUMENTS .....</b>	<b>6</b>
<b>4.1. REFERENCE DOCUMENTS FOR TESTING .....</b>	<b>6</b>
<b>5. LABORATORY ENVIRONMENT .....</b>	<b>7</b>
<b>6. SUMMARY OF TEST RESULTS .....</b>	<b>8</b>
<b>7. TEST EQUIPMENTS UTILIZED .....</b>	<b>8</b>
<b>ANNEX A: MEASUREMENT RESULTS .....</b>	<b>9</b>
A.1 OUTPUT POWER      (§22.913(A)/§24.232(B)/§27.50(D)(2)) .....	9
A.2 FREQUENCY STABILITY   (§2.1055/§24.235/§27.54) .....	10
A.3 OCCUPIED BANDWIDTH   (§2.1049(H)(I)) .....	13
A.4 EMISSION BANDWIDTH   (§22.917(B)/§24.238(B)) .....	17
A.5 BAND EDGE COMPLIANCE   (§22.917(B)/§24.238(B)/ §27.53(G)) .....	21
A.6 CONDUCTED SPURIOUS EMISSION   (§2.1057/§22.917/§24.238/§27.53(G)) .....	23



## **1. Test Laboratory**

### **1.1. Testing Location**

Company Name: CTTL, Telecommunication Technology Labs, Academy of  
Telecommunication Research, MIIT  
Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China  
100191  
Postal Code: 100191

### **1.2. Testing Environment**

Normal Temperature: 15-35°C  
Relative Humidity: 20-75%

### **1.3. Project data**

Testing Start Date: Mar 20th, 2015  
Testing End Date: May 7th, 2015

### **1.4. Signature**

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**Zi Xiaogang**  
**(Prepared this test report)**

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**Sun Xiangqian**  
**(Reviewed this test report)**

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**Lu Bingsong**  
**Deputy Director of the laboratory**  
**(Approved this test report)**



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: Asiatelco Technologies Co.  
Address /Post: #289 Bisheng Road, Building-8, 3F, Zhangjiang Hi-Tech Park,  
Pudong, Shanghai 201204, China  
City: Shanghai  
Postal Code: 201204  
Country: China  
Contact Person: Yang Zhan  
Contact Email: zyang@asiatelco.com  
Telephone: 021-51688806-192  
Fax: 021-33932400

### **2.2. Manufacturer Information**

Company Name: HUIZHOU QIAOXING TELECOMMUNICATION INDUSTRY CO.,LT  
D  
Address /Post: Huizhou Qiaoxing Industrial Park, Tangquan, Huizhou City,  
Guangdong Province, P.R.C  
City: Huizhou City, Guangdong Province  
Postal Code: 516023  
Country: China  
Contact Person: Liang Xiaohua  
Contact Email: Liangxiao\_hua\_love@126.com  
Telephone: 0752-2820345 2820322  
Fax: 0752-2820377



### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

Description	LTE Mobile hotspot
Model	ALM-N245
FCC ID	XYOALM-N245
Frequency	CDMA800MHz(BC0);CDMA1900MHz(BC1)
Antenna	Internal
Power supply	Battery or Charger (AC Adaptor)
Extreme vol. Limits	3.4VDC to 4.2VDC (nominal: 3.7 VDC)
Extreme temp. Tolerance	-30°C to +50°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MIIT of People's Republic of China.

#### **3.2. Internal Identification of EUT used during the test**

<b>EUT ID*</b>	<b>SN or MEID</b>	<b>HW Version</b>	<b>SW Version</b>
UT02a	A1000032324BEE	KF1030	N245V1.0.0B03

\*EUT ID: is used to identify the test sample in the lab internally.

#### **3.3. Internal Identification of AE used during the test**

<b>AE ID*</b>	<b>Description</b>	<b>SN</b>
AE1	Battery	/
AE2	Switching Adapter	/

##### **AE1**

Model	N-1800
Manufacturer	/
Capacitance	1800mAh
Nominal Voltage	3.7V

##### **AE2**

Model	ASUC30a-050100
Manufacturer	/

\*AE ID: is used to identify the test sample in the lab internally.



### **3.4. General Description**

The Equipment Under Test (EUT) is a model of LTE Mobile hotspot with integrated antenna. It consists of Hand Telephone Set and normal options: lithium battery, charger.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

## **4. Reference Documents**

### **4.1. Reference Documents for testing**

The following documents listed in this section are referred for testing.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	V 10.1.14
FCC Part 22	PUBLIC MOBILE SERVICES	V 10.1.14
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	V 10.1.14
ANSI/TIA-603-C	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2004
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2009



## 5. LABORATORY ENVIRONMENT

**Shielding chamber** did not exceed following limits along the RF testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω



## 6. SUMMARY OF TEST RESULTS

Items	List	Clause in FCC rules	Verdict
1	Output Power	22.913(a)/24.232(b)/27.50(d)(2)	Pass
2	Frequency Stability	2.1055/24.235/ 27.54	Pass
3	Occupied Bandwidth	2.1049(h)(i)	Pass
4	Emission Bandwidth	22.917(b)/24.238(b)	Pass
5	Band Edge Compliance	22.917(b)/24.238(b)/ 27.53(g)	Pass
6	Conducted Spurious Emission	2.1057/22.917/24.238/ 27.53(g)	Pass

## 7. Test Equipments Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALIBRATION INTERVAL	CAL DUE DATE
1	Spectrum Analyzer	FSV30	101576	R&S	1 Year	2015-11-4
2	Wireless Communications Test Set	8960(E5515C)	GB461603 13	Agilent	1 Year	2015-7-22
3	Climatic chamber	SH-641	92009050	ESPEC	2 Years	2017-2-16



## **ANNEX A: MEASUREMENT RESULTS**

### **A.1 OUTPUT POWER** (§22.913(a)/§24.232(b)/§27.50(d)(2))

#### **A.1.1 Summary**

During the process of testing, the EUT was controlled via Agilent Wireless Communications Test Set (8960(E5515C)) to ensure max power transmission and proper modulation.

This result is peak output power conducted measurements for the EUT.

In all cases, output power is within the specified limits.

#### **A.1.2 Method of Measurements**

The EUT was set up for the max output power with pseudo random data modulation.

The power was measured with Rhode & Schwarz Spectrum Analyzer FSV30 (peak)

These measurements were done at 3 frequencies, 1851.25 MHz, 1880.0 MHz and 1908.75 MHz for PCS CDMA band, 824.7MHz, 836.52MHz and 848.31MHz for CDMA 800 band (bottom, middle and top of operational frequency range) for 1x RTT and 1xEVDO .

#### **CDMA 800**

##### **Measurement result**

Channel	Frequency(MHz)	Channel power(dBm)			Target (dB)
		1x RTT	1xEVDO		
			Rel0	RevA	
1013	824.70	23.80	23.74	NA	23±1
384	836.52	23.43	23.56	NA	23±1
777	848.31	23.33	23.55	NA	23±1

#### **CDMA 1900**

##### **Measurement result**

Channel	Frequency(MHz)	Channel power(dBm)			Target (dB)
		1x RTT	1xEVDO		
			Rel0	RevA	
25	1851.25	23.38	23.42	NA	23±1
600	1880.00	23.68	23.60	NA	23±1
1175	1908.75	23.60	23.62	NA	23±1

## **A.2 FREQUENCY STABILITY** (§2.1055/§24.235/§27.54)

### **A.2.1 Method of Measurement**

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of Agilent 8960(E5515C) Wireless Communications Test Set.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the 8960(E5515C) and in a simulated call on channel 384 for CDMA 800 and channel 600 for 1900 measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the 8960(E5515C) and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 C increments from +50°C to -30°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

### **A.2.2 Measurement Limit**

#### **A.2.2.1 For Hand carried battery powered equipment**

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.55VDC and 4.35VDC, with a nominal voltage of 3.8VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

#### **A.2.2.2 For equipment powered by primary supply voltage**

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the



fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

### A.2.3 Measurement results

#### CDMA 800

##### Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	-6.75	0.008
3.7	1.78	0.002
4.2	-7.03	0.009

##### Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-8.31	0.010
-20	-8.01	0.010
-10	-2.01	0.003
0	-1.84	0.002
10	-1.79	0.002
20	-2.02	0.003
30	-2.07	0.003
40	-6.32	0.008
50	-6.44	0.008



**CDMA 1900**

**Frequency Error vs Voltage**

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	4.38	0.002
3.7	5.28	0.003
4.2	5.05	0.003

**Frequency Error vs Temperature**

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	6.75	0.003
-20	6.01	0.003
-10	5.34	0.003
0	5.27	0.003
10	5.29	0.003
20	5.16	0.003
30	4.89	0.003
40	4.75	0.003
50	5.21	0.003

## A.3 OCCUPIED BANDWIDTH (§2.1049(h)(i))

### A.3.1 Occupied Bandwidth Results

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the CDMA frequency band. The table below lists the measured -20dBc BW (99%BW). Spectrum analyzer plots are included on the following pages.

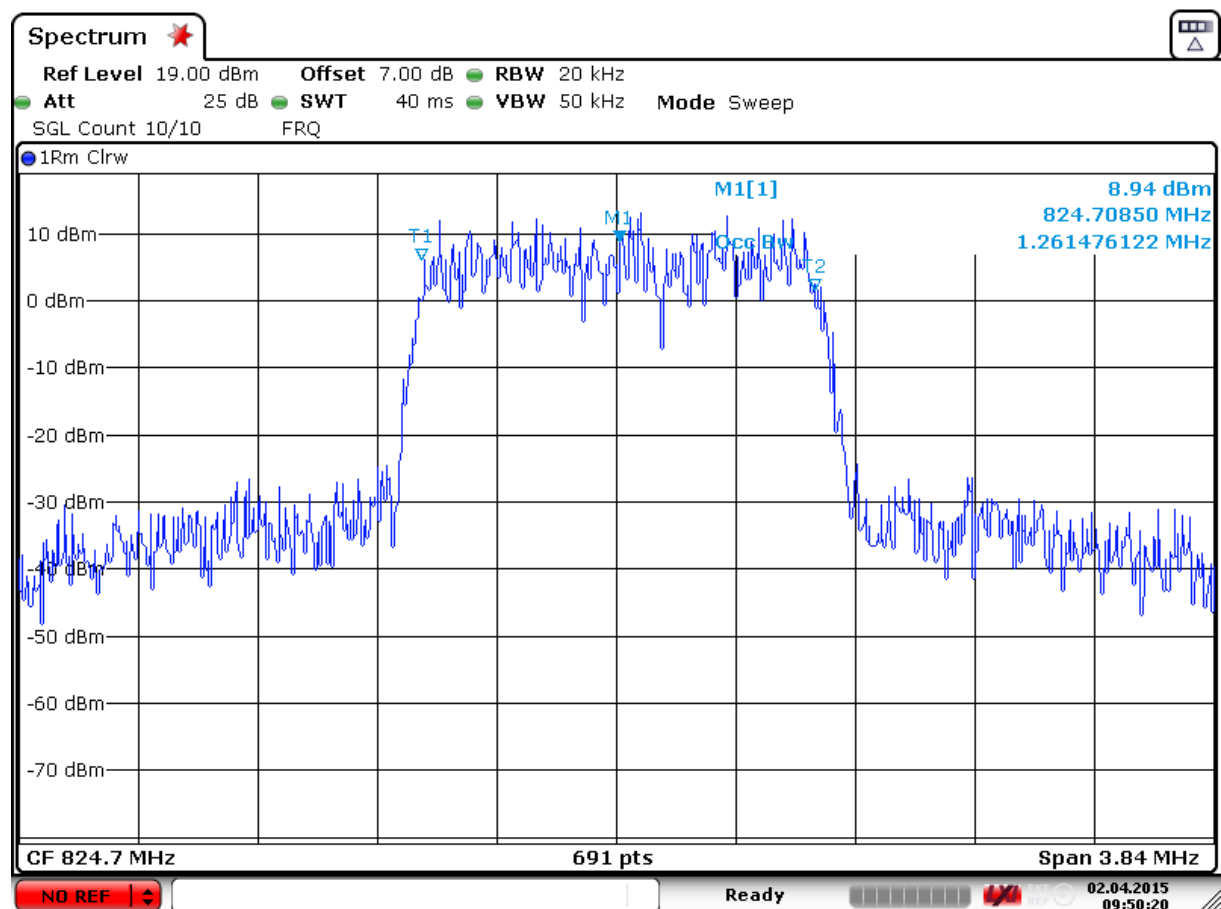
#### CDMA 800 (99% BW)

Channel	Occupied Bandwidth (-20dBc BW)( MHz)
1013	1.261
384	1.273
777	1.284

**ANALYZER SETTINGS: RBW=20 kHz, VBW=50 kHz**

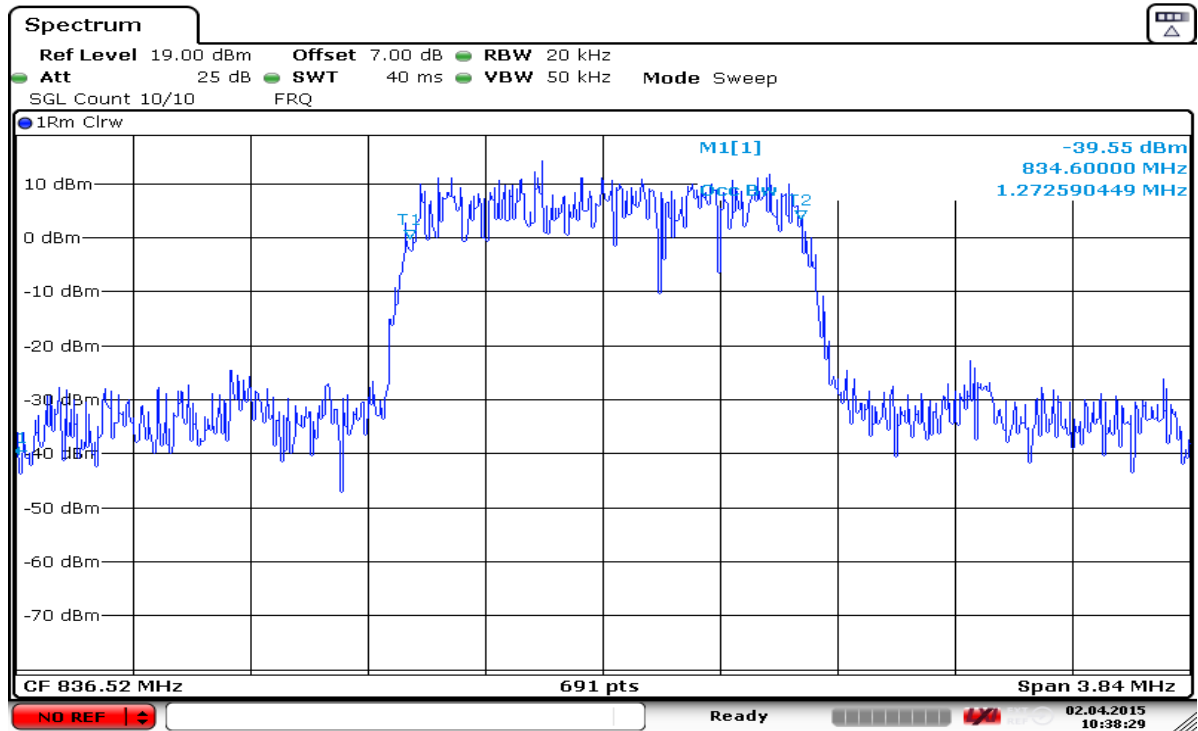
#### CDMA 800

#### Channel 1013-Occupied Bandwidth (99% BW)



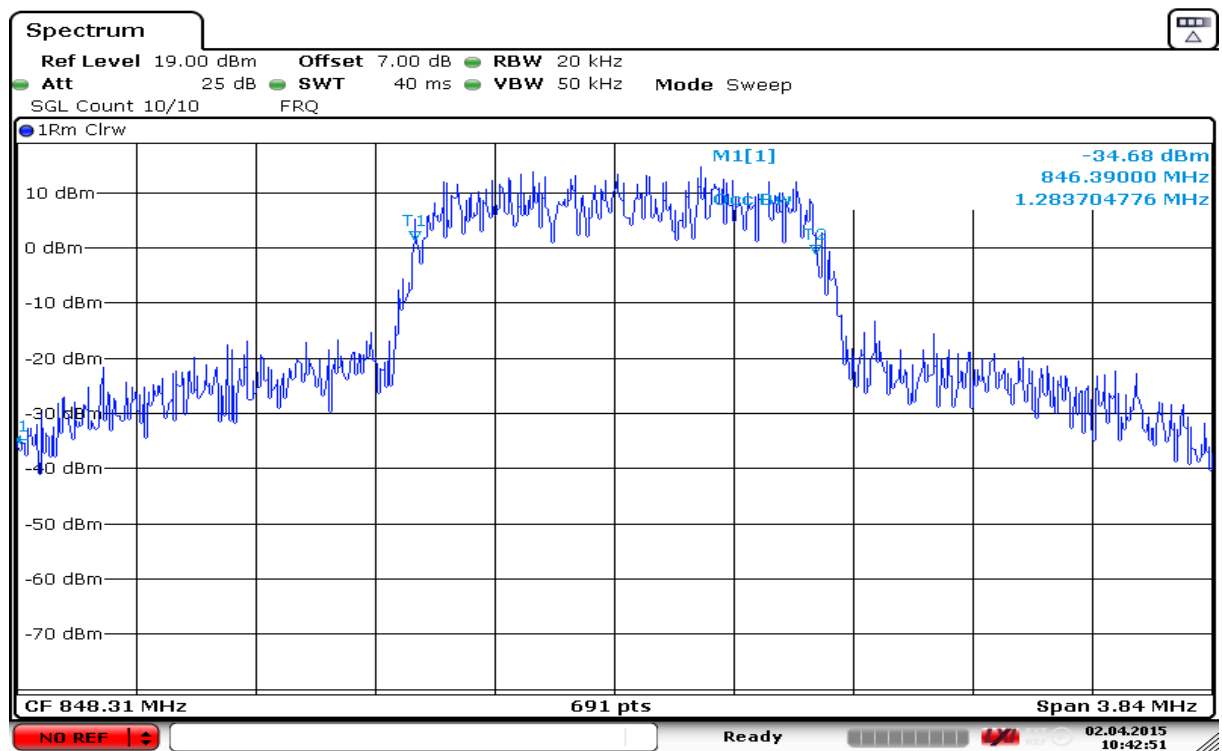


### Channel 384-Occupied Bandwidth (99% BW)



Date: 2.APR.2015 10:38:29

### Channel 777-Occupied Bandwidth (99% BW)



Date: 2.APR.2015 10:42:51

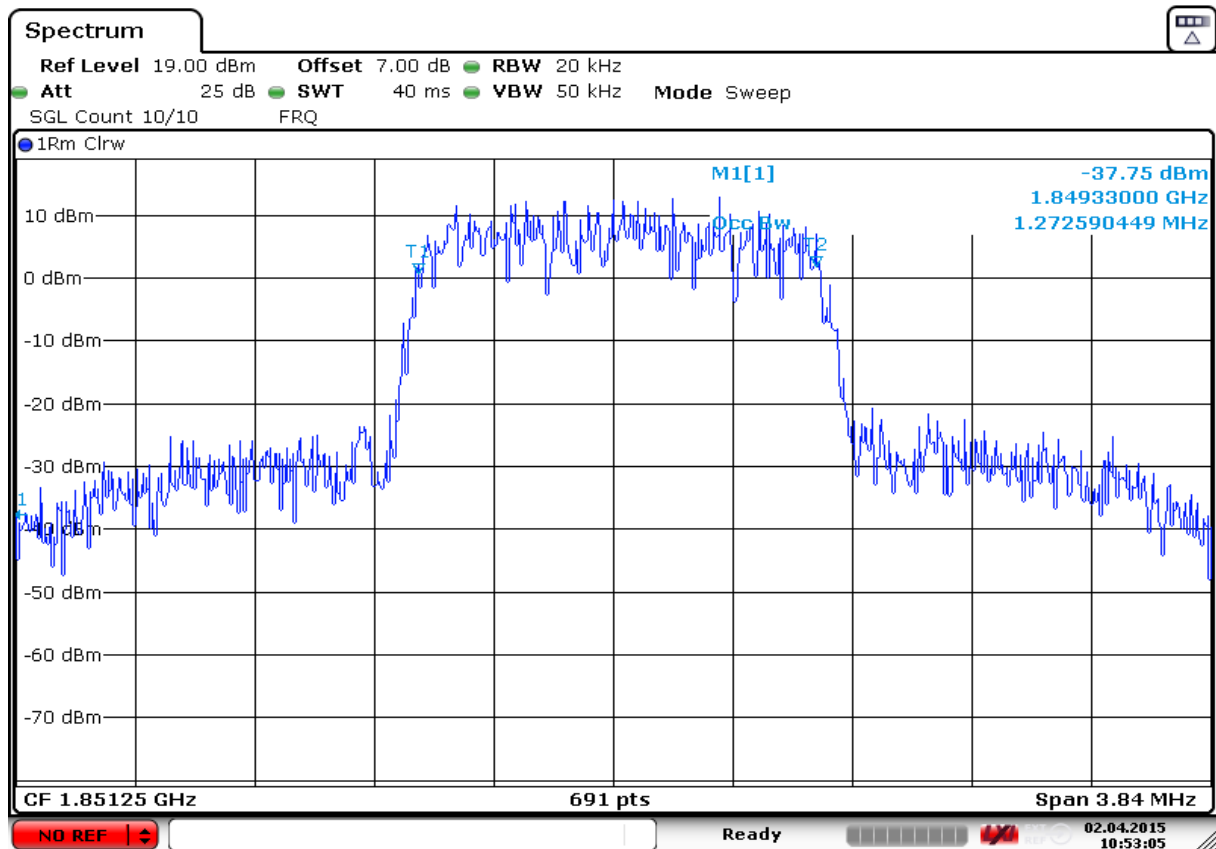
### CDMA 1900(99% BW)

Channel	Occupied Bandwidth (-20dBc BW)( MHz)
25	1.273
600	1.261
1175	1.273

**ANALYZER SETTINGS: RBW=20 kHz, VBW=50 kHz**

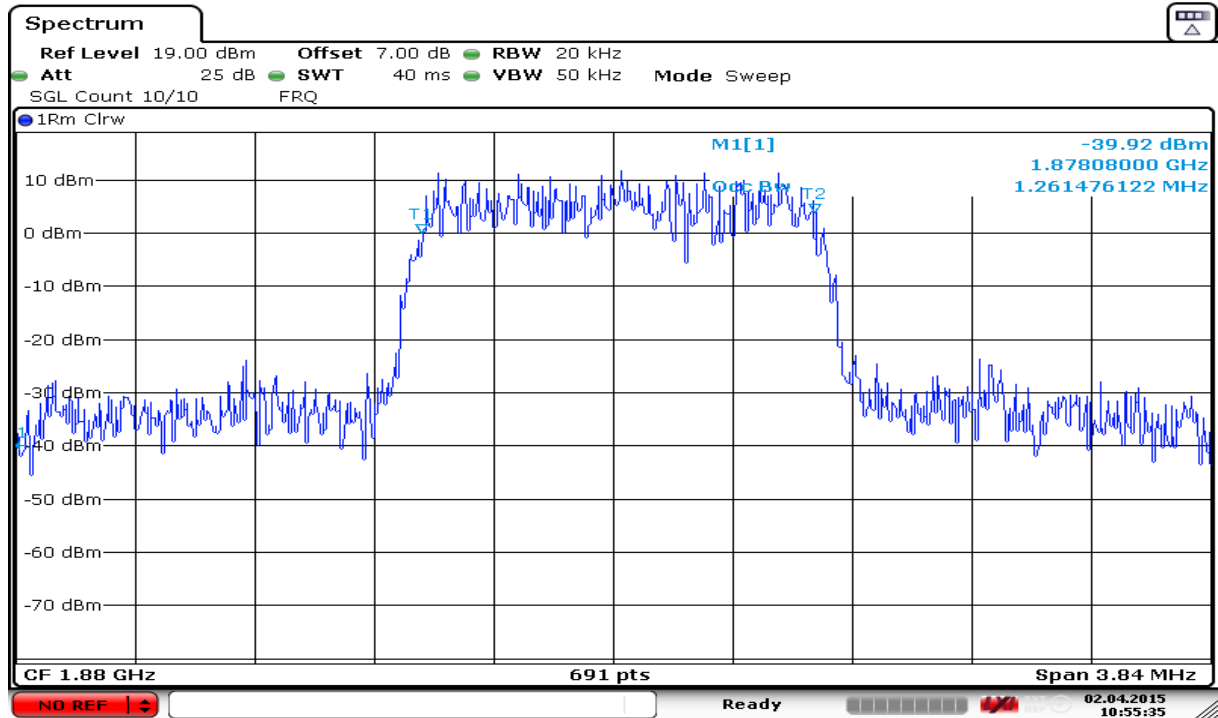
### CDMA 1900

#### Channel 25-Occupied Bandwidth (99% BW)

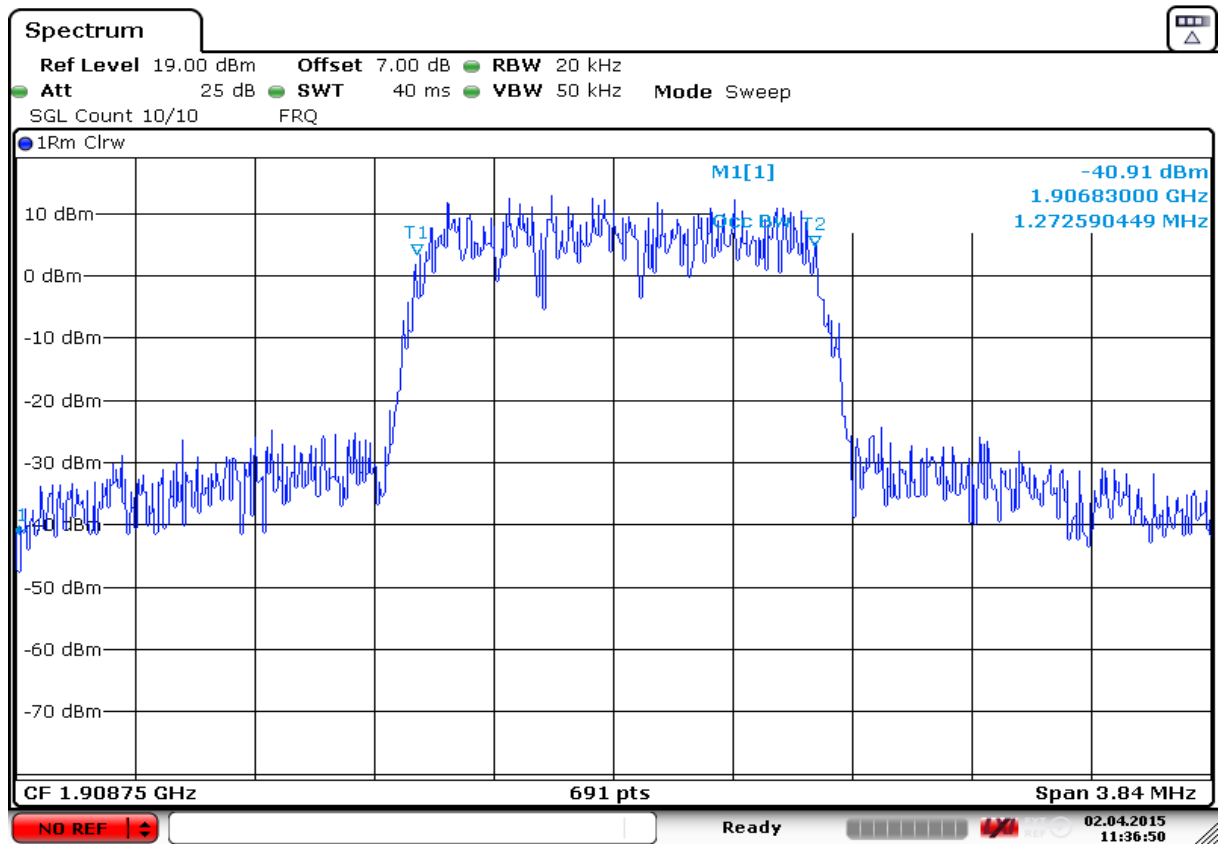


Date: 2.APR.2015 10:53:04

### Channel 600-Occupied Bandwidth (99% BW)



### Channel 1175-Occupied Bandwidth (99% BW)



Date: 2.APR.2015 11:36:50



## **A.4 EMISSION BANDWIDTH** (§22.917(b)/§24.238(b))

### **A.4.1 Emission Bandwidth Results**

Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the CDMA 800, and CDMA 1900 band. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

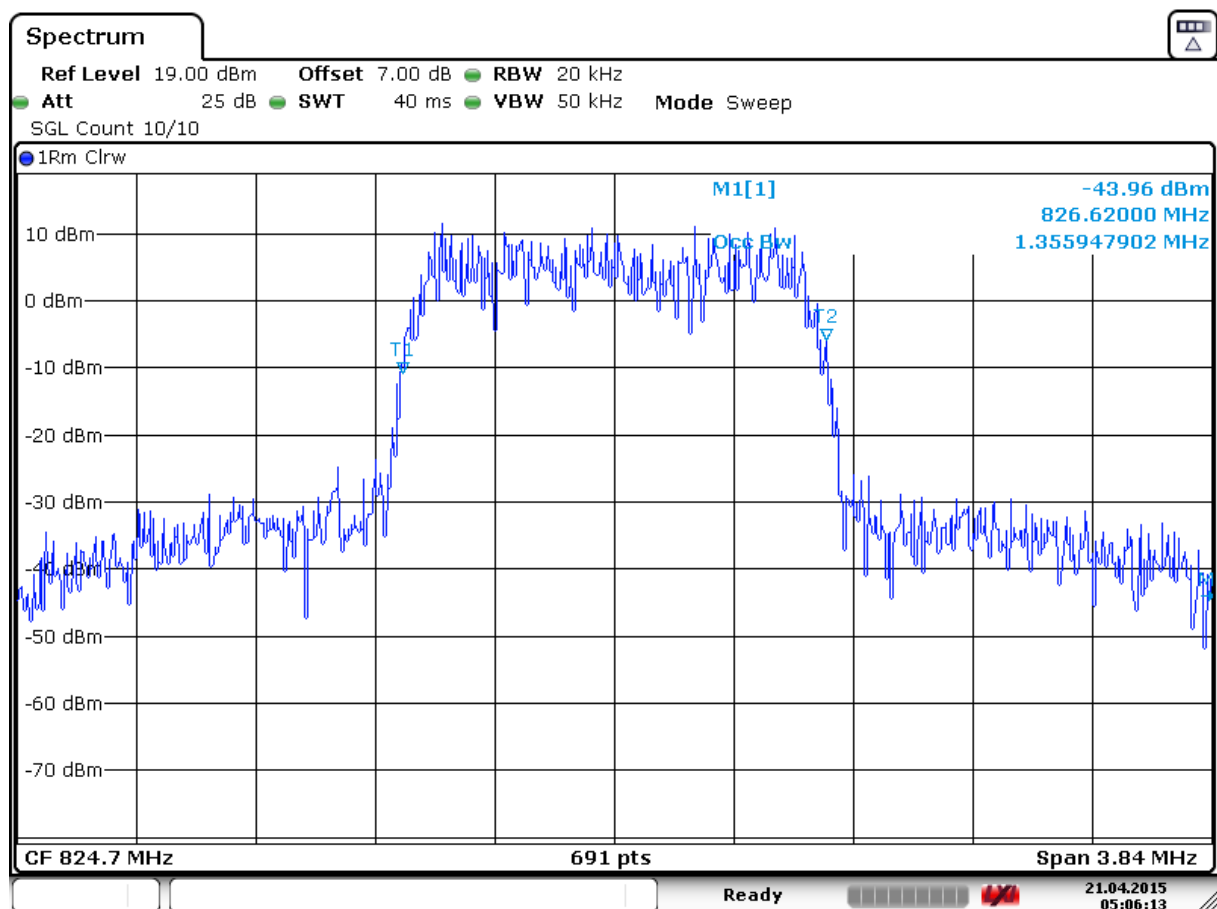
#### **CDMA 800 (-26dBc)**

Channel	Occupied Bandwidth (-26dBc BW)( MHz)
1013	1.356
384	1.362
777	1.367

**ANALYZER SETTINGS: RBW=20 kHz, VBW=50 kHz**

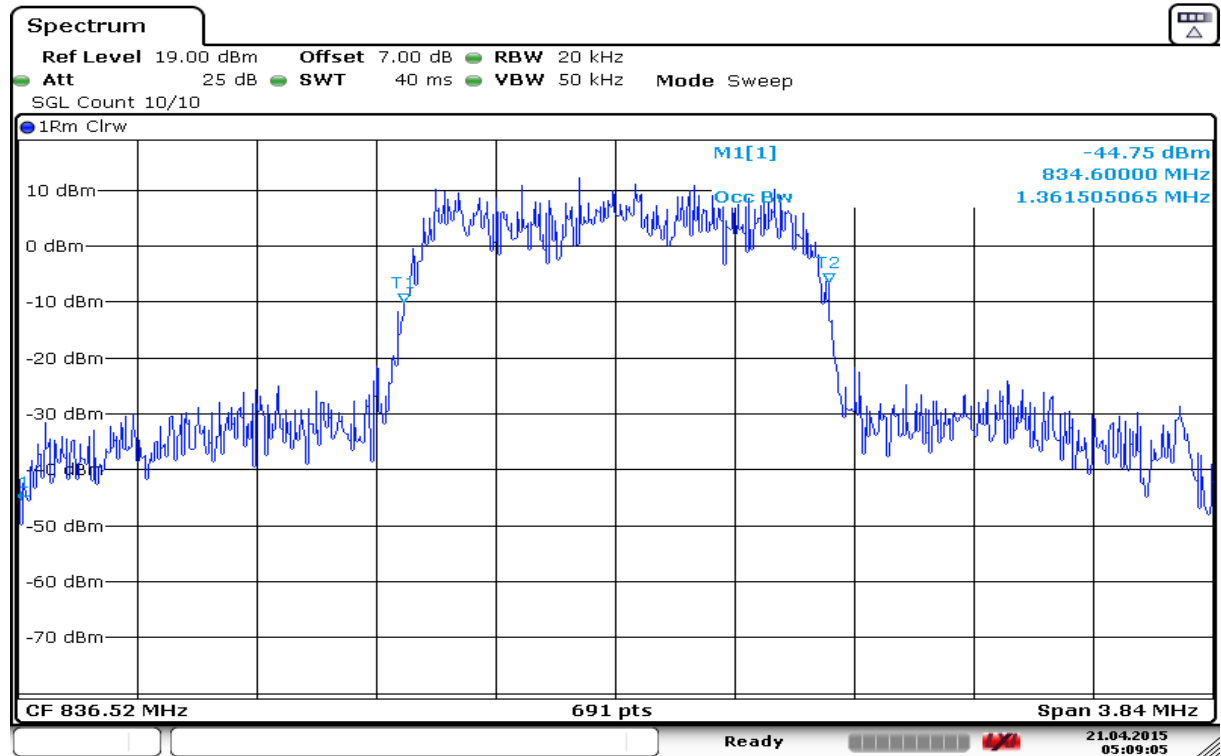
#### **CDMA 800**

##### **Channel 1013-Occupied Bandwidth (-26dBc BW)**



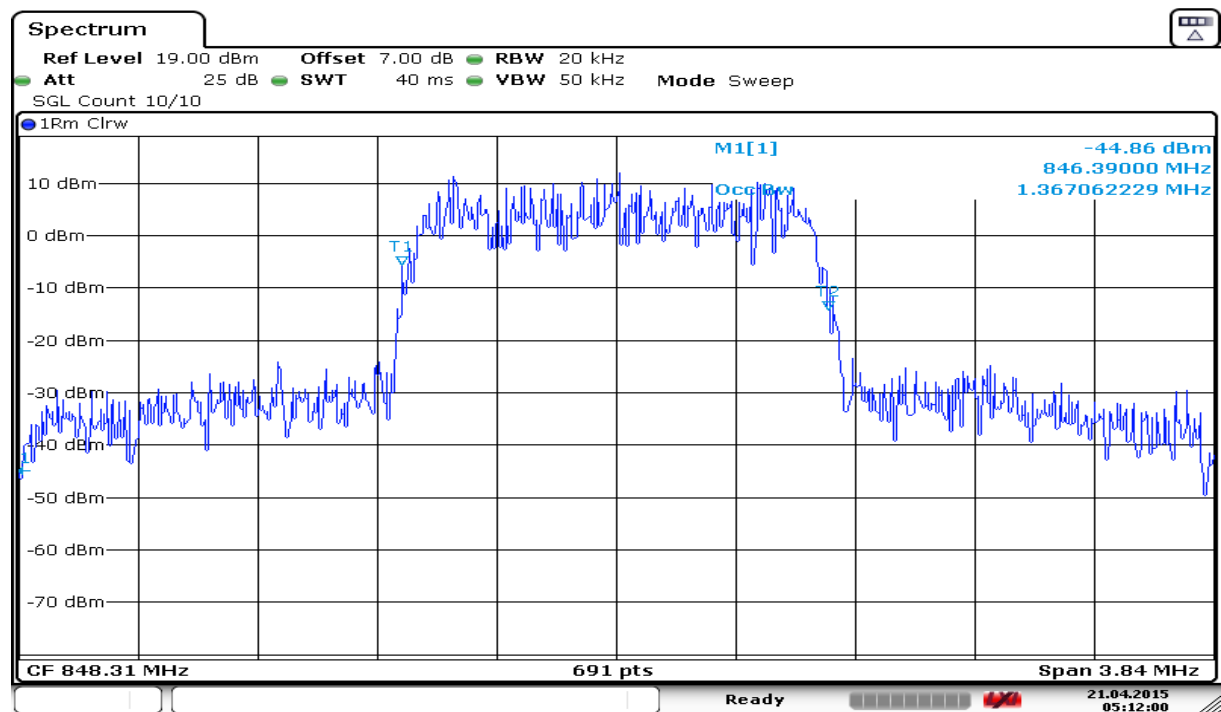


### Channel 384-Occupied Bandwidth (-26dBc BW)



Date: 21.APR.2015 05:09:05

### Channel 777-Occupied Bandwidth (-26dBc BW)



Date: 21.APR.2015 05:12:00

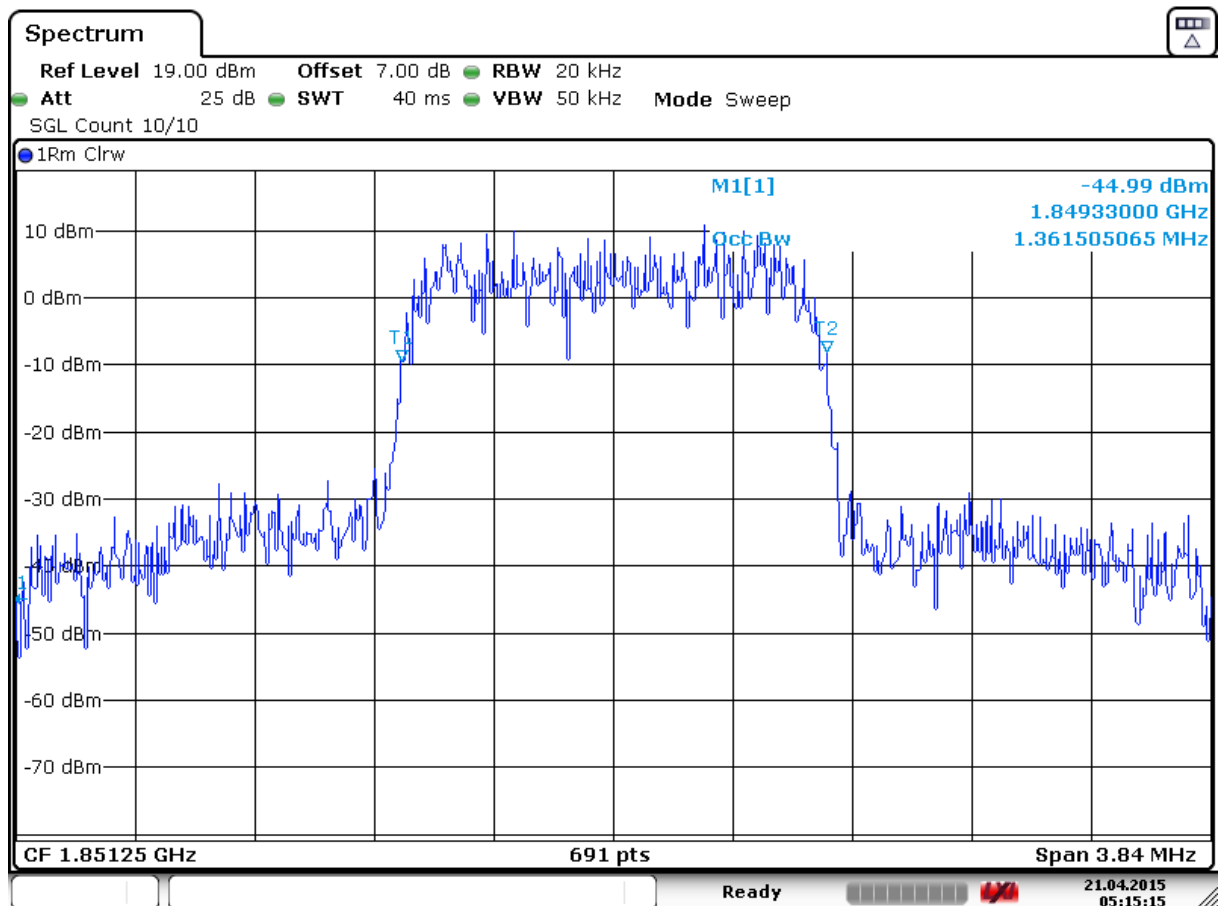
### CDMA 1900 (-26dBc)

Channel	Occupied Bandwidth (-26dBc BW)( MHz)
25	1.362
600	1.367
1175	1.362

**ANALYZER SETTINGS: RBW=20 kHz, VBW=50 kHz**

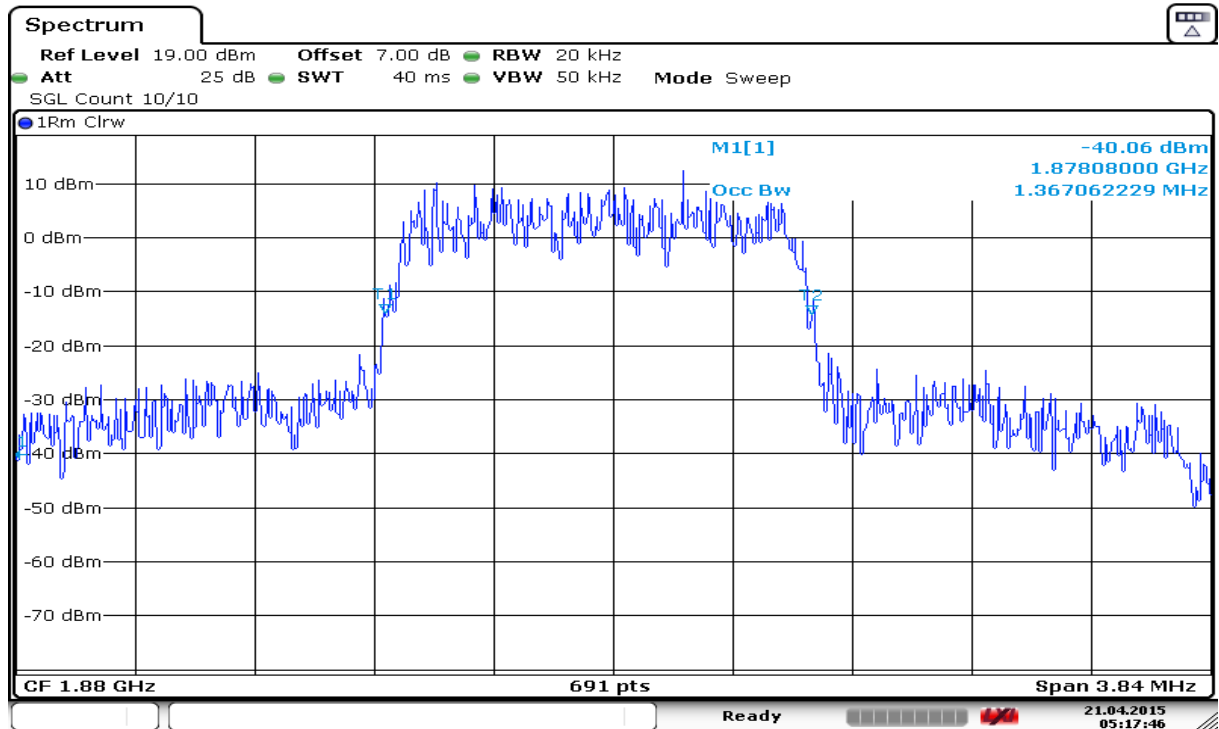
### CDMA 1900

#### Channel 25-Occupied Bandwidth (-26dBc BW)



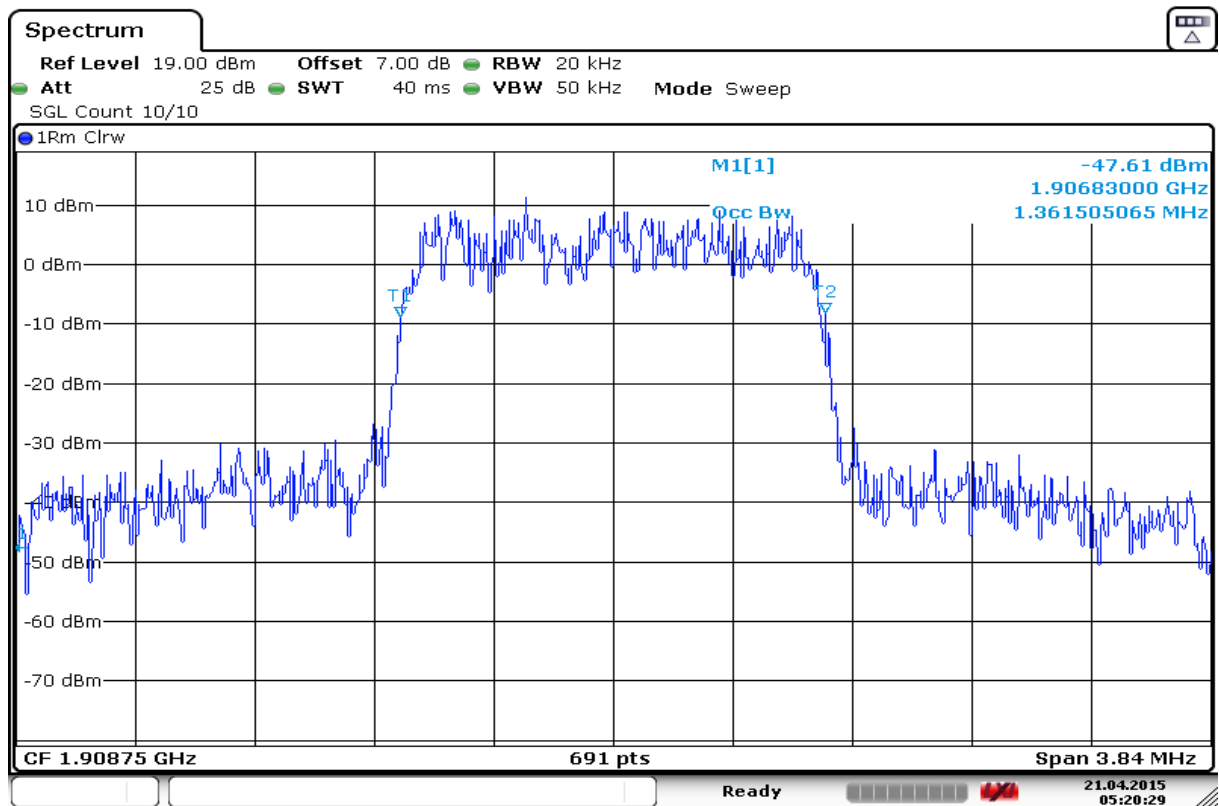
Date: 21.APR.2015 05:15:15

### Channel 600-Occupied Bandwidth (-26dBc BW)



Date: 21.APR.2015 05:17:45

### Channel 1175-Occupied Bandwidth (-26dBc BW)



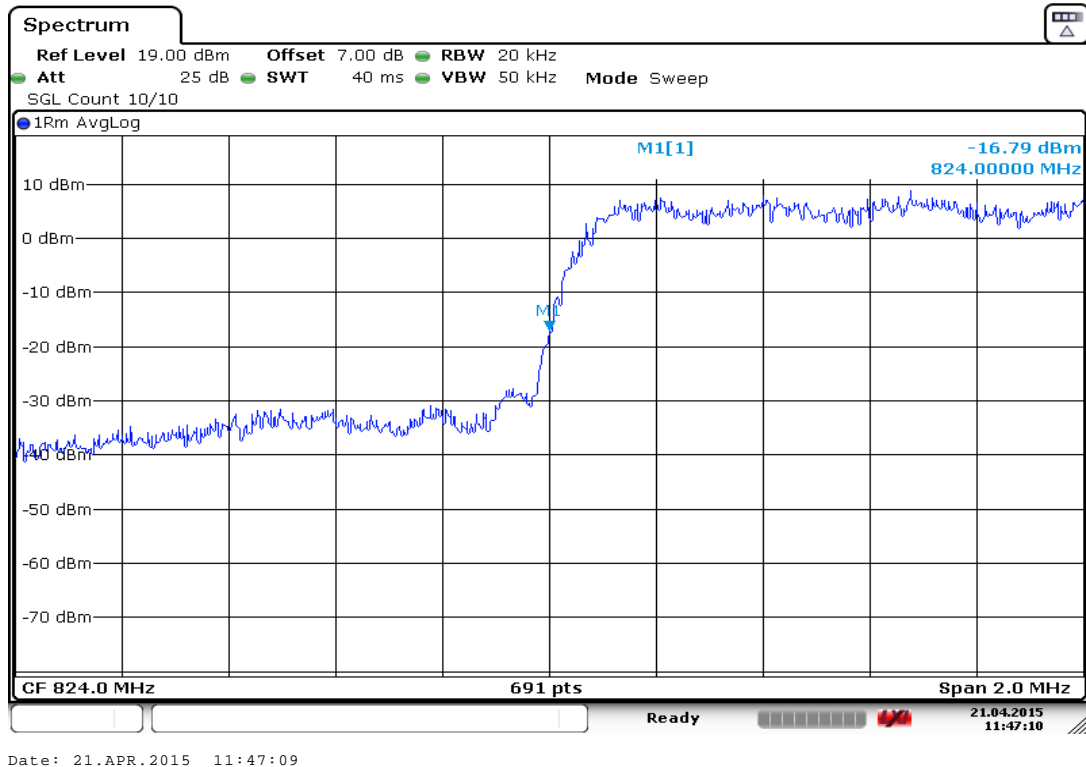
Date: 21.APR.2015 05:20:28

## A.5 BAND EDGE COMPLIANCE (§22.917(b)/§24.238(b)/ §27.53(g))

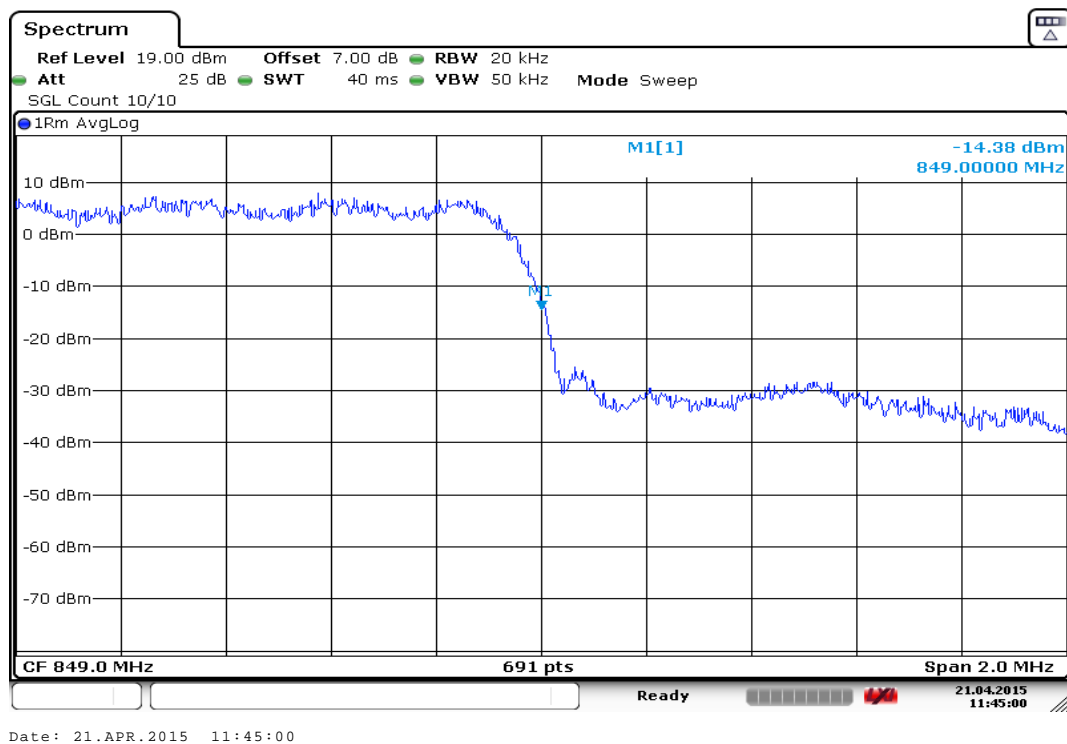
BAND EDGE emission limit -13dBm

CDMA 800

BAND EDGE BLOCK-Channel 1013

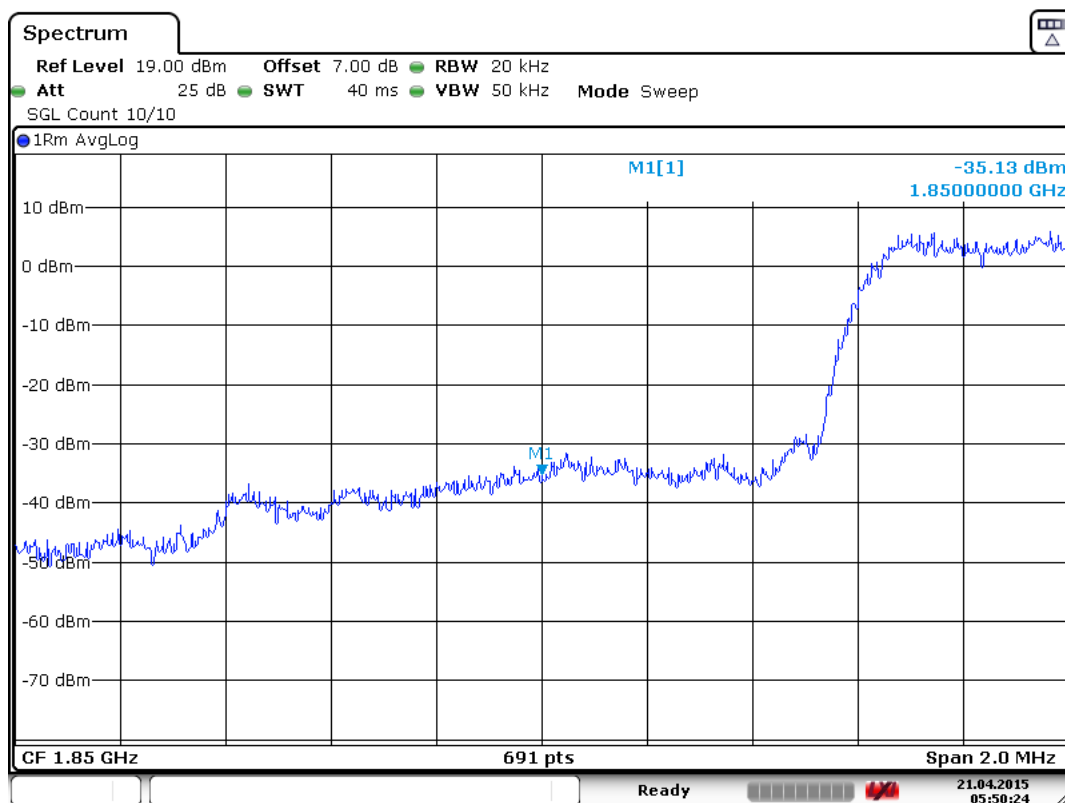


BAND EDGE BLOCK-Channel 777



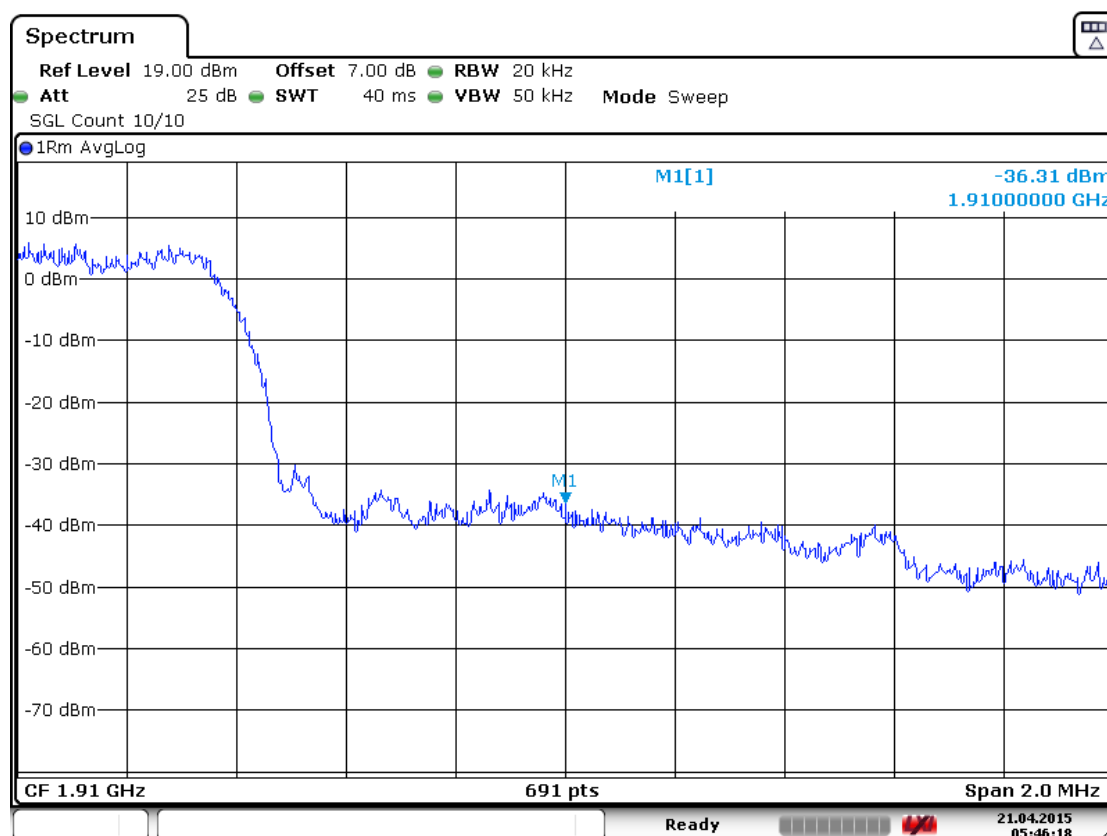
CDMA 1900

## BAND EDGE BLOCK-Channel 25



Date: 21.APR.2015 05:50:24

## BAND EDGE BLOCK-Channel 1175



Date: 21.APR.2015 05:46:18



## **A.6 CONDUCTED SPURIOUS EMISSION (§2.1057/§22.917/§24.238/§27.53(g))**

### **A.6.1 Measurement Method**

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

#### **CDMA 800 Transmitter**

Channel	Frequency (MHz)
1013	824.70
384	836.52
777	848.31

#### **CDMA 1900 Transmitter**

Channel	Frequency (MHz)
25	1851.25
600	1880.00
1175	1909.75

### **A. 6.2 Measurement Limit**

Sec. 24.238 Emission Limits.

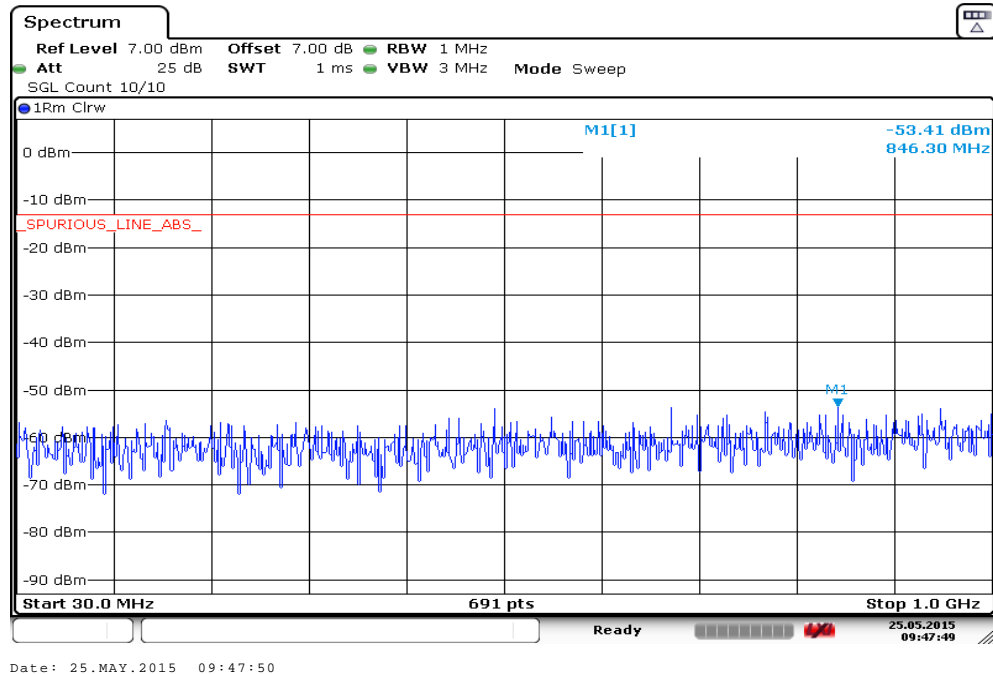
(a) On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least  $43+10\log(P)$  dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

### A. 6.3 Measurement result

#### CDMA 1900

##### A. 6.3.1 Channel 25: 30MHz –1GHz

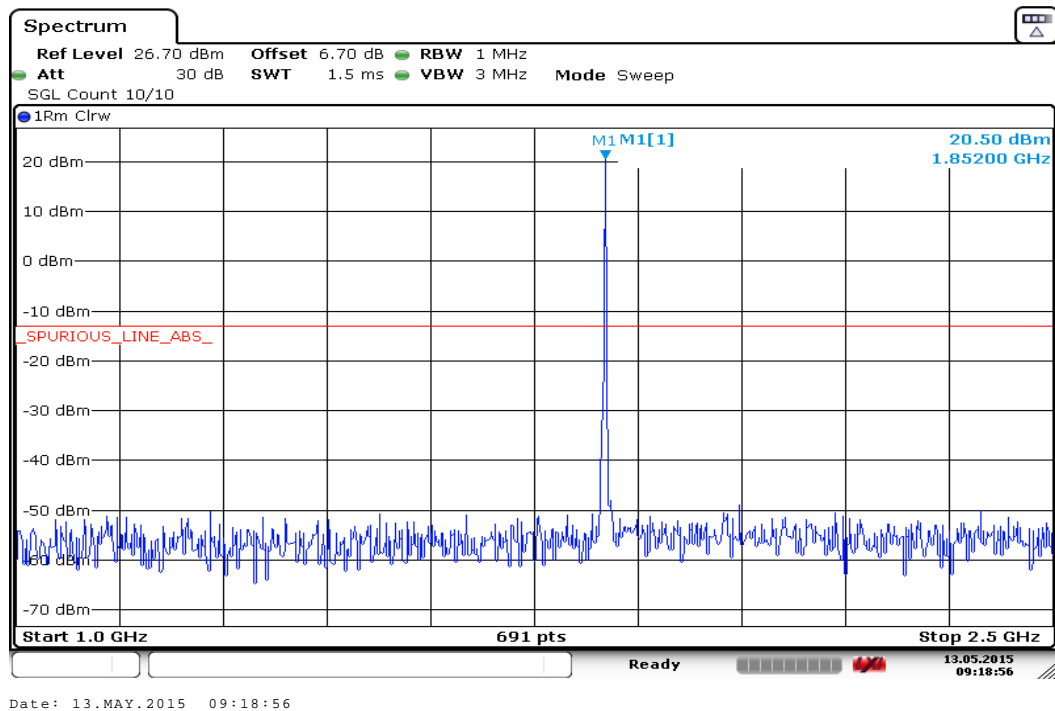
Spurious emission limit –13dBm.



##### A.6.3.2 Channel 25: 1GHz –2.5GHz

Spurious emission limit –13dBm.

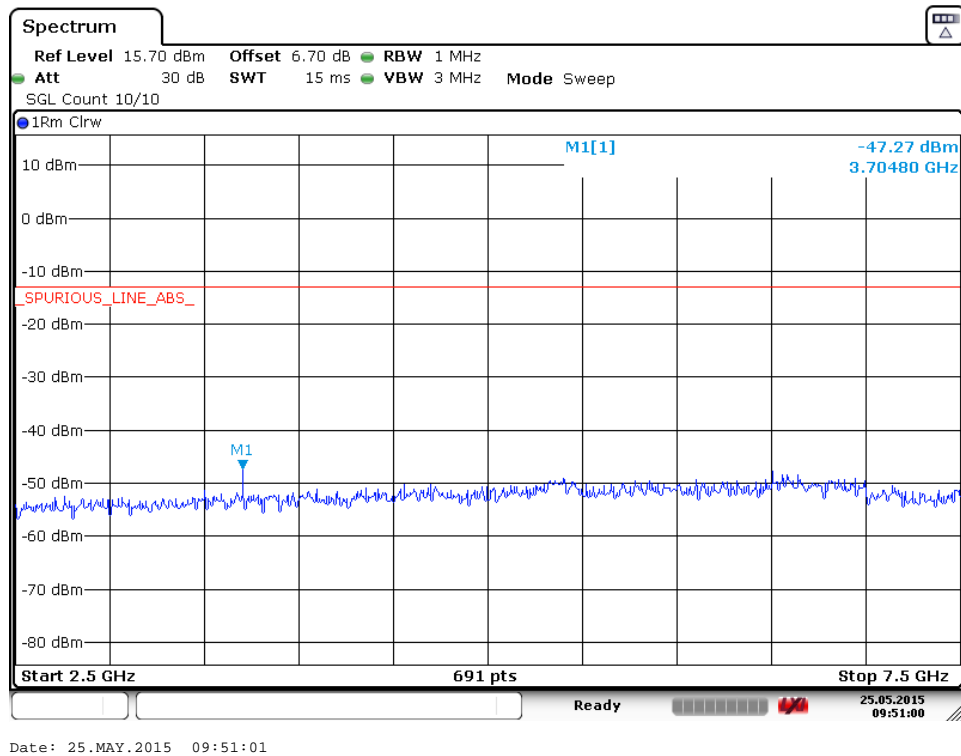
**NOTE: peak above the limit line is the carrier frequency.**





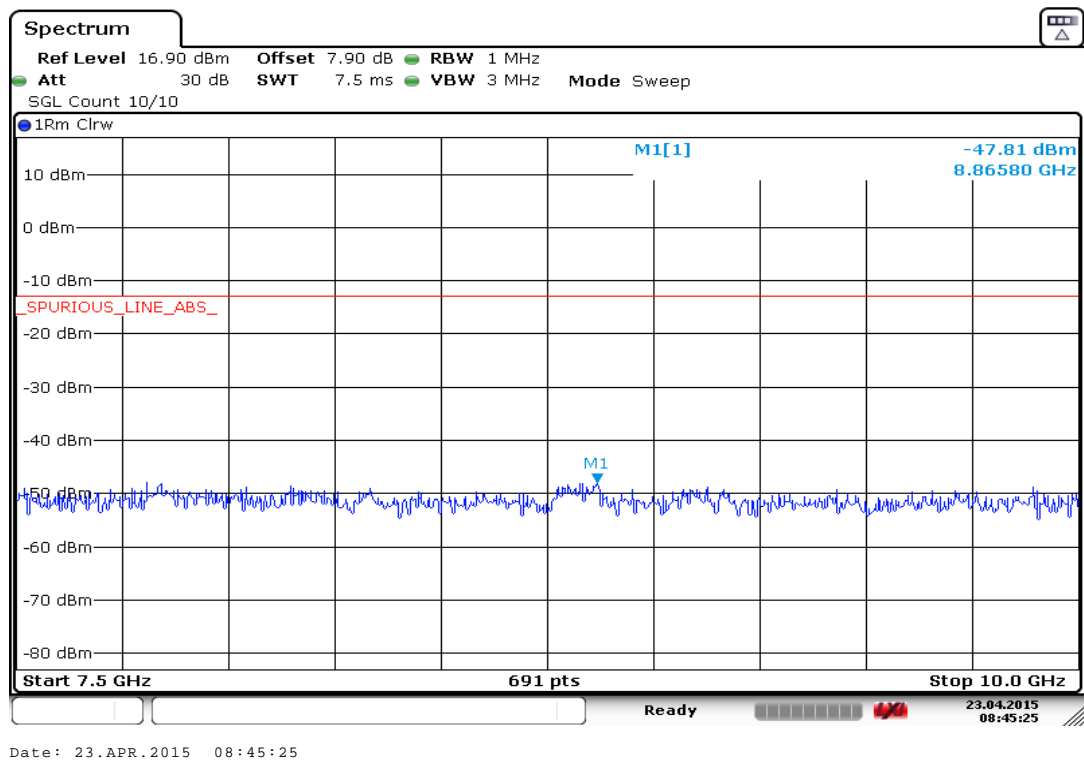
### A.6.3.3 Channel 25: 2.5GHz –7.5GHz

Spurious emission limit –13dBm.



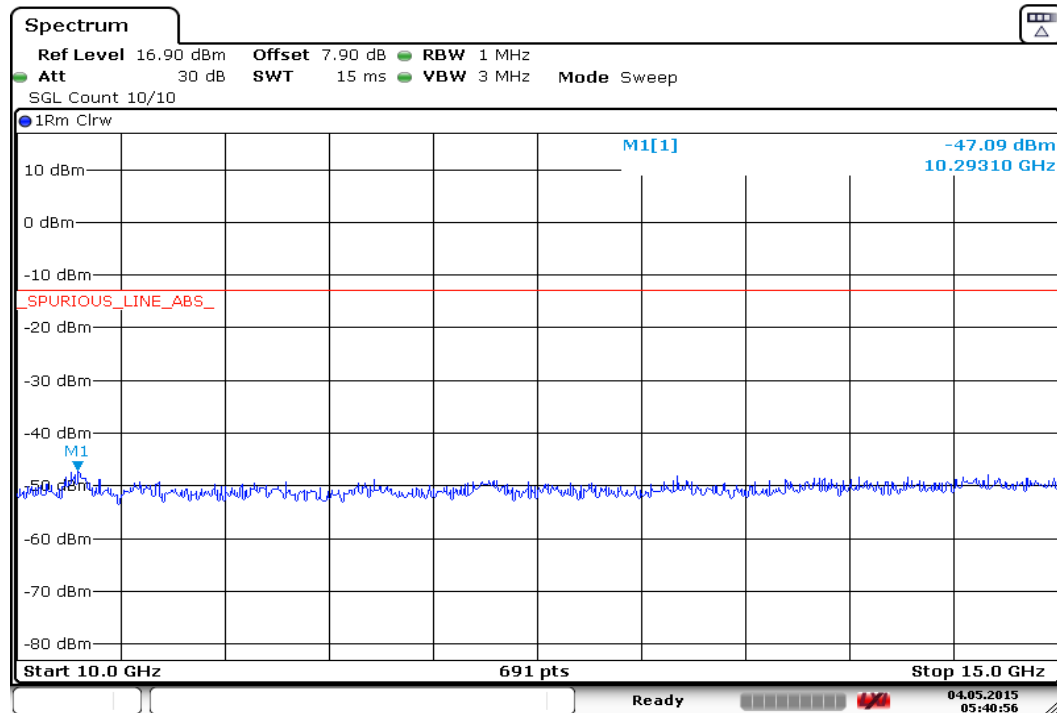
### A.6.3.4 Channel 25: 7.5GHz –10GHz

Spurious emission limit –13dBm.



### A.6.3.5 Channel 25: 10GHz –15GHz

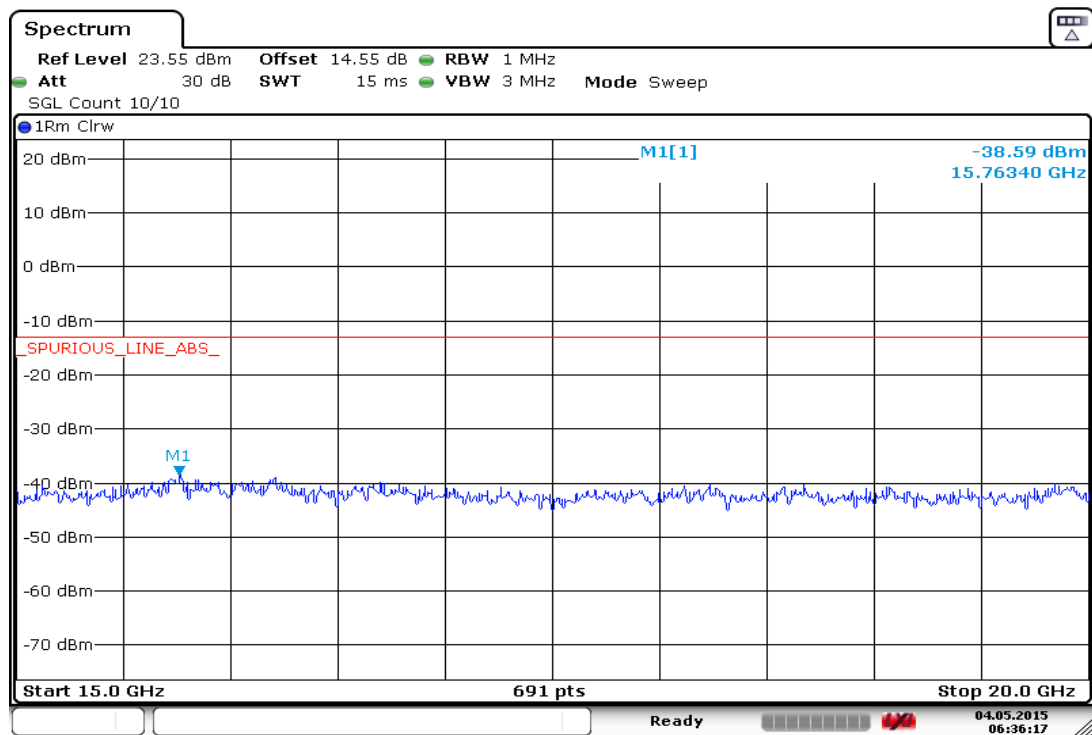
Spurious emission limit –13dBm.



Date: 4.MAY.2015 05:40:56

### A.6.3.6 Channel 25: 15GHz –20GHz

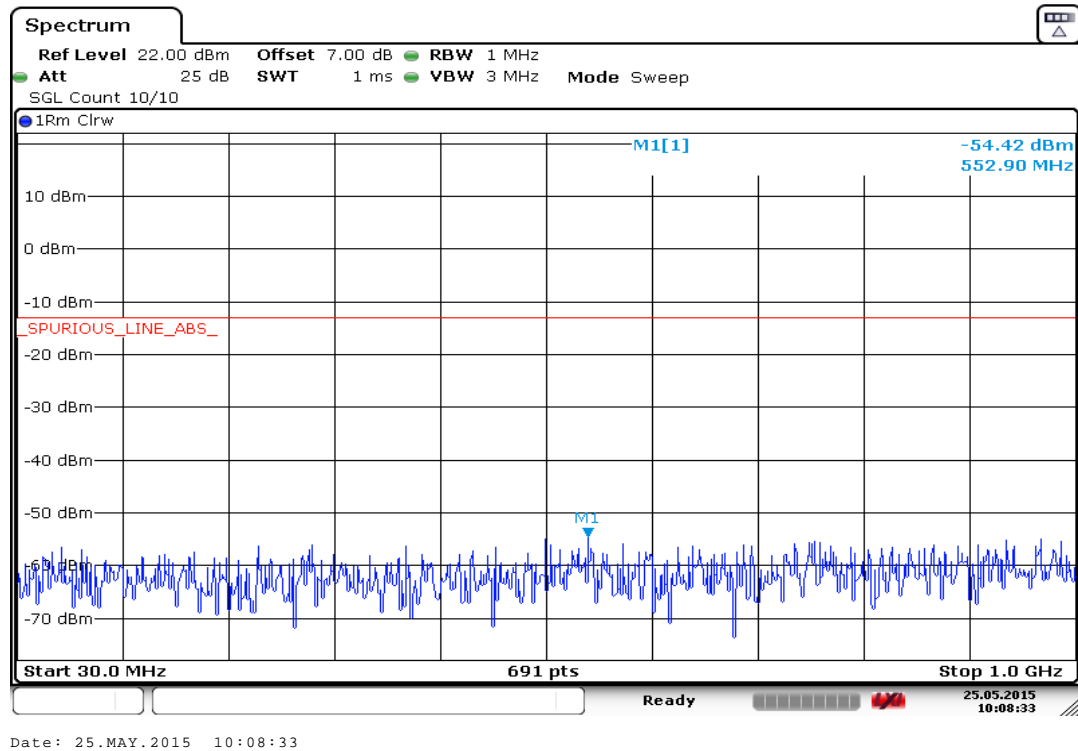
Spurious emission limit –13dBm.



Date: 4.MAY.2015 06:36:17

### A. 6.3.7 Channel 600: 30MHz –1GHz

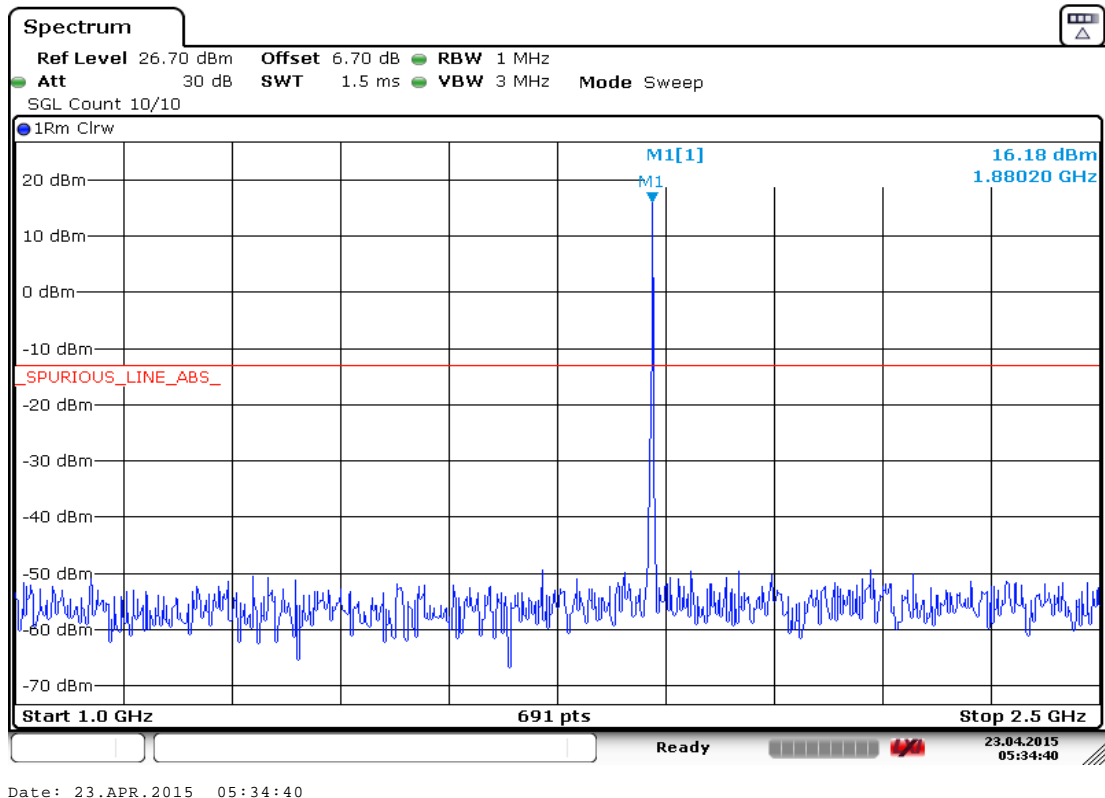
Spurious emission limit –13dBm.



### A.6.3.8 Channel 600: 1GHz –2.5GHz

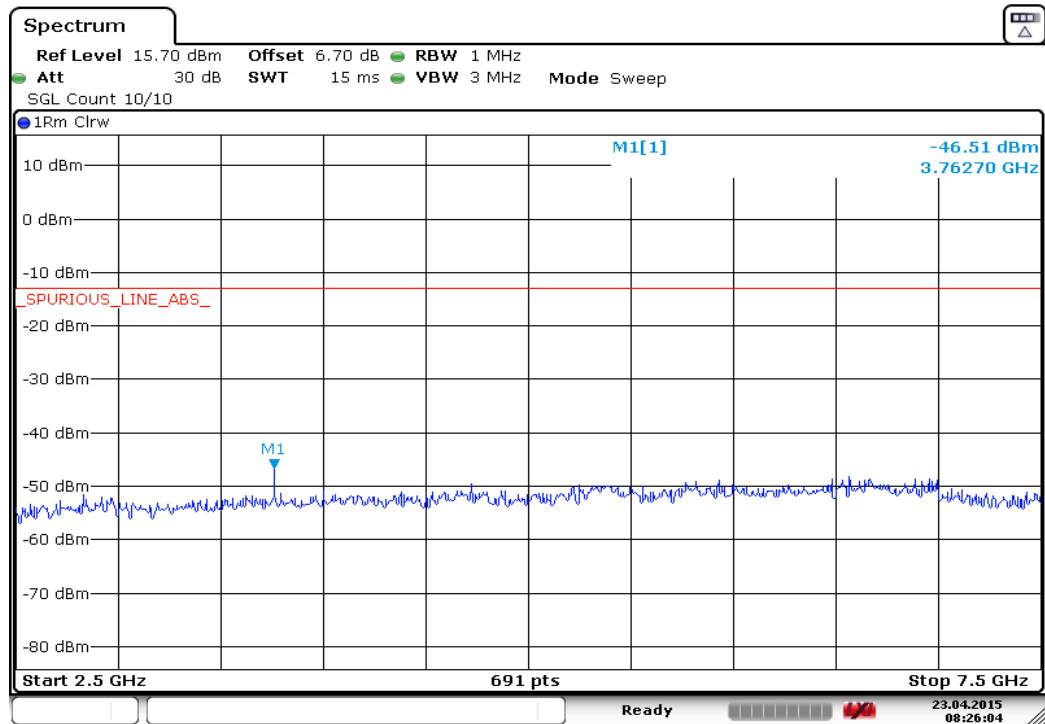
Spurious emission limit –13dBm.

**NOTE: peak above the limit line is the carrier frequency.**



#### A.6.3.9 Channel 600: 2.5GHz –7.5GHz

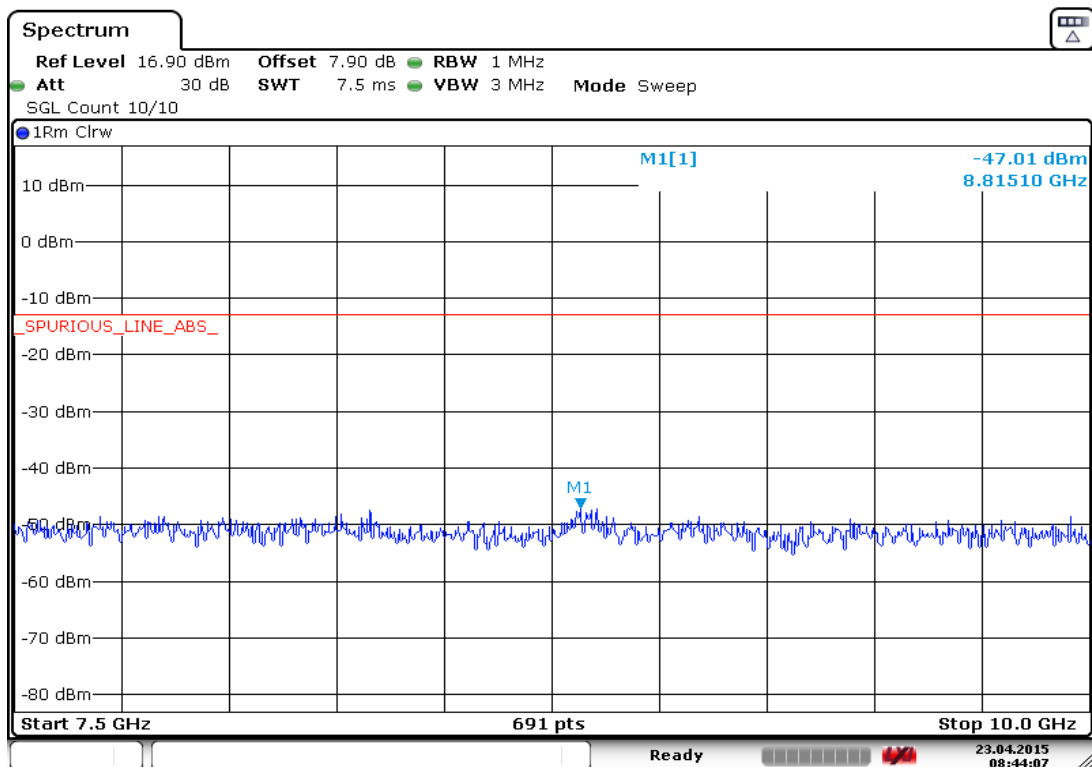
Spurious emission limit –13dBm.



Date: 23.APR.2015 08:26:04

#### A.6.3.10 Channel 600: 7.5GHz –10GHz

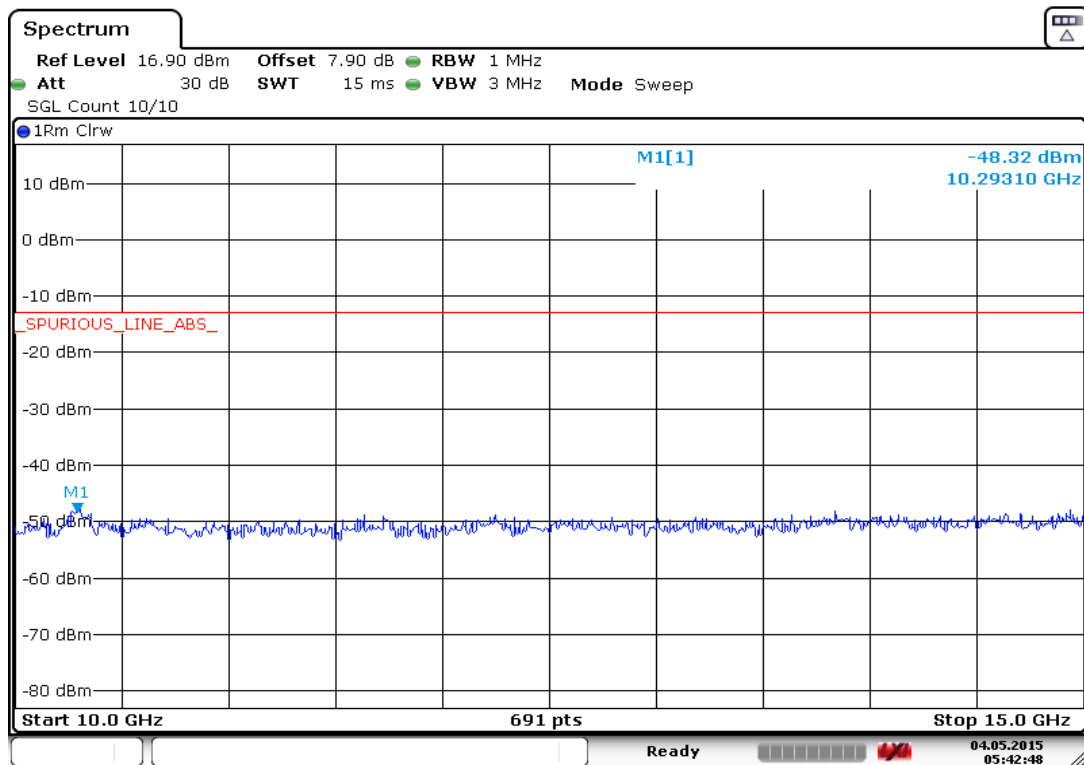
Spurious emission limit –13dBm.



Date: 23.APR.2015 08:44:07

#### A.6.3.11 Channel 600: 10GHz –15GHz

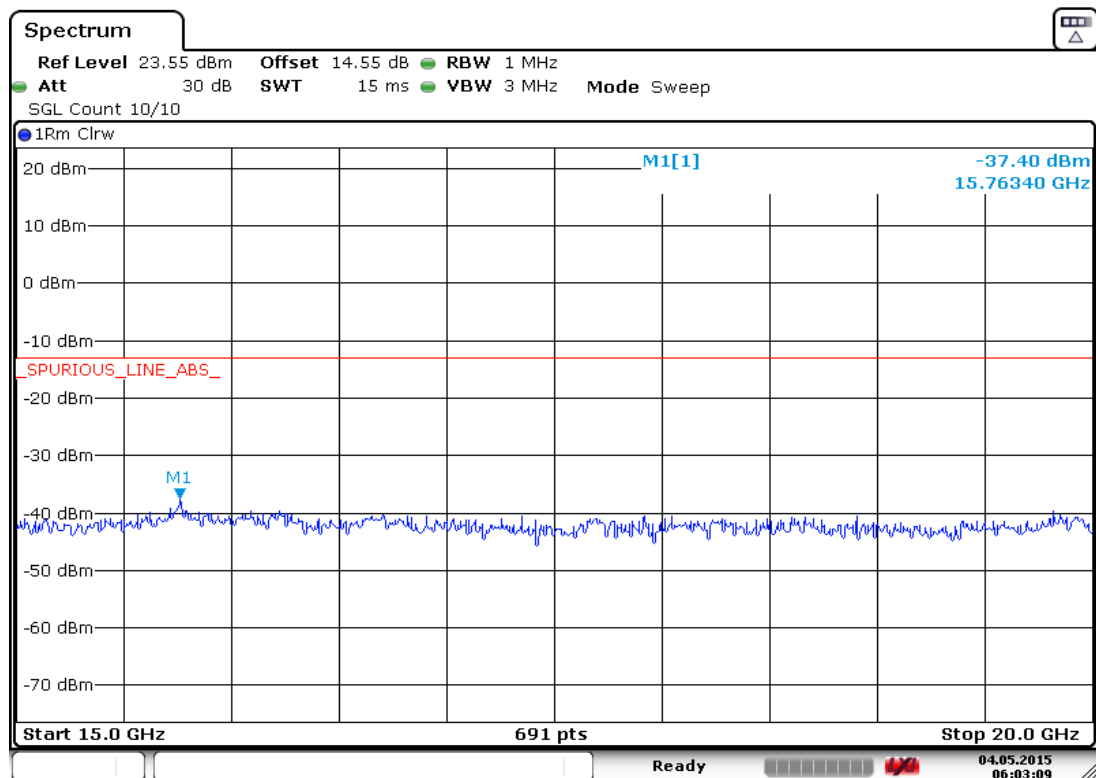
Spurious emission limit –13dBm.



Date: 4.MAY.2015 05:42:48

#### A.6.3.12 Channel 600: 15GHz –20GHz

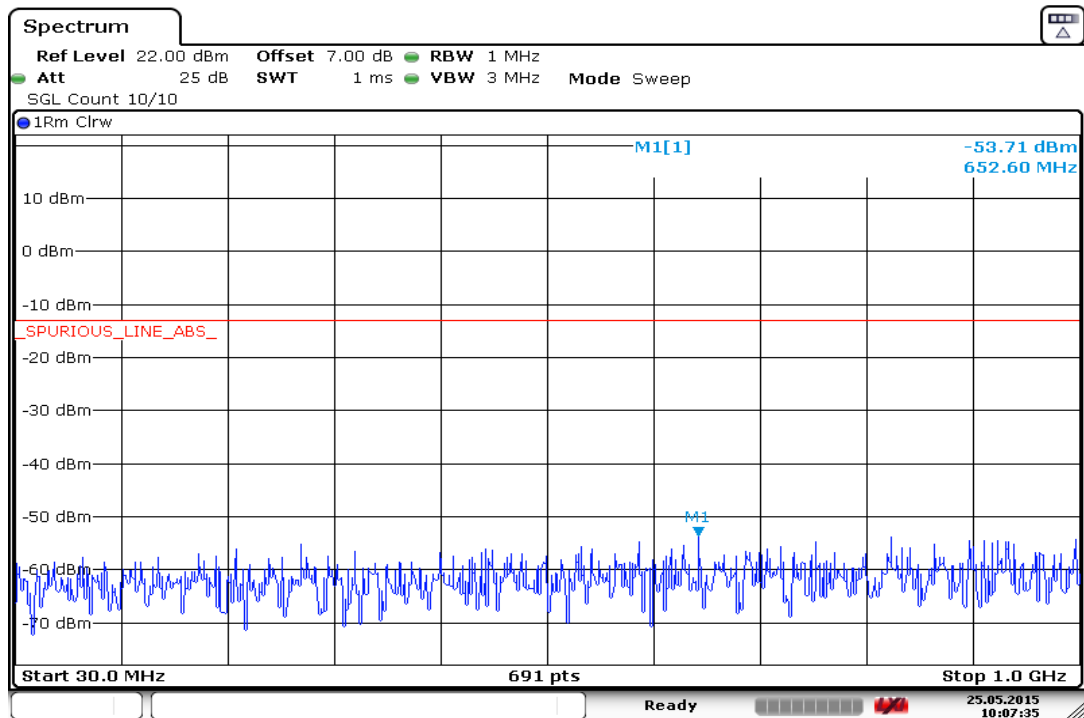
Spurious emission limit –13dBm.



Date: 4.MAY.2015 06:03:09

### A. 6.3.13 Channel 1175: 30MHz –1GHz

Spurious emission limit –13dBm.

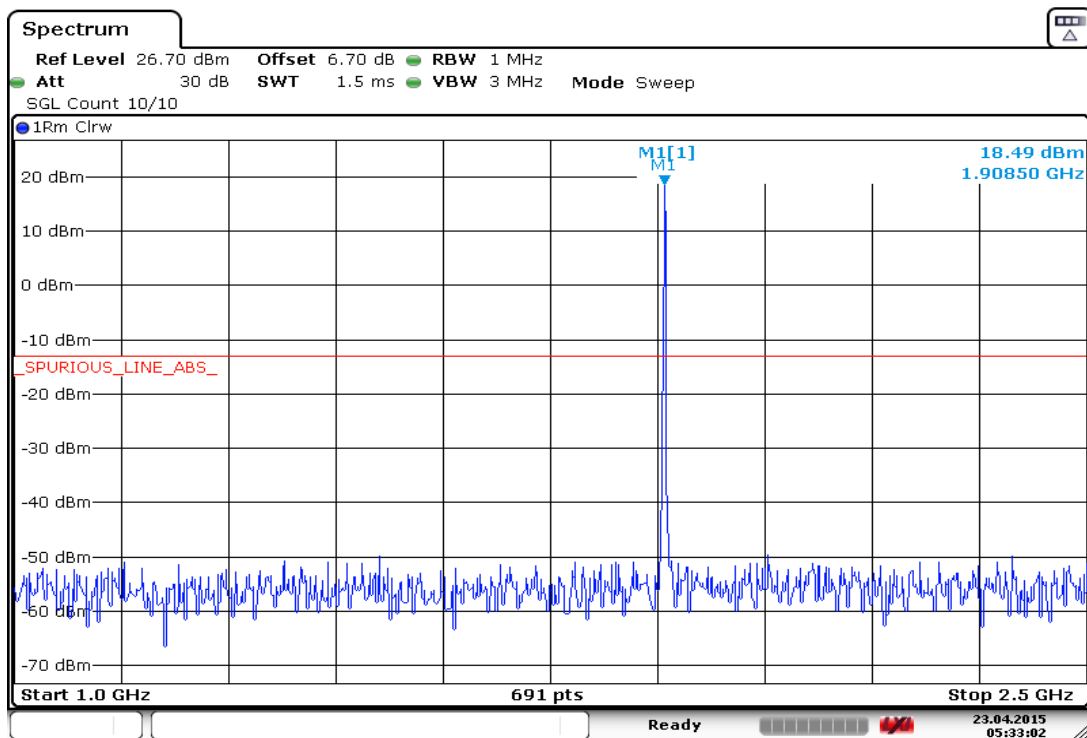


Date: 25.MAY.2015 10:07:35

### A.6.3.14 Channel 1175: 1GHz –2.5GHz

Spurious emission limit –13dBm.

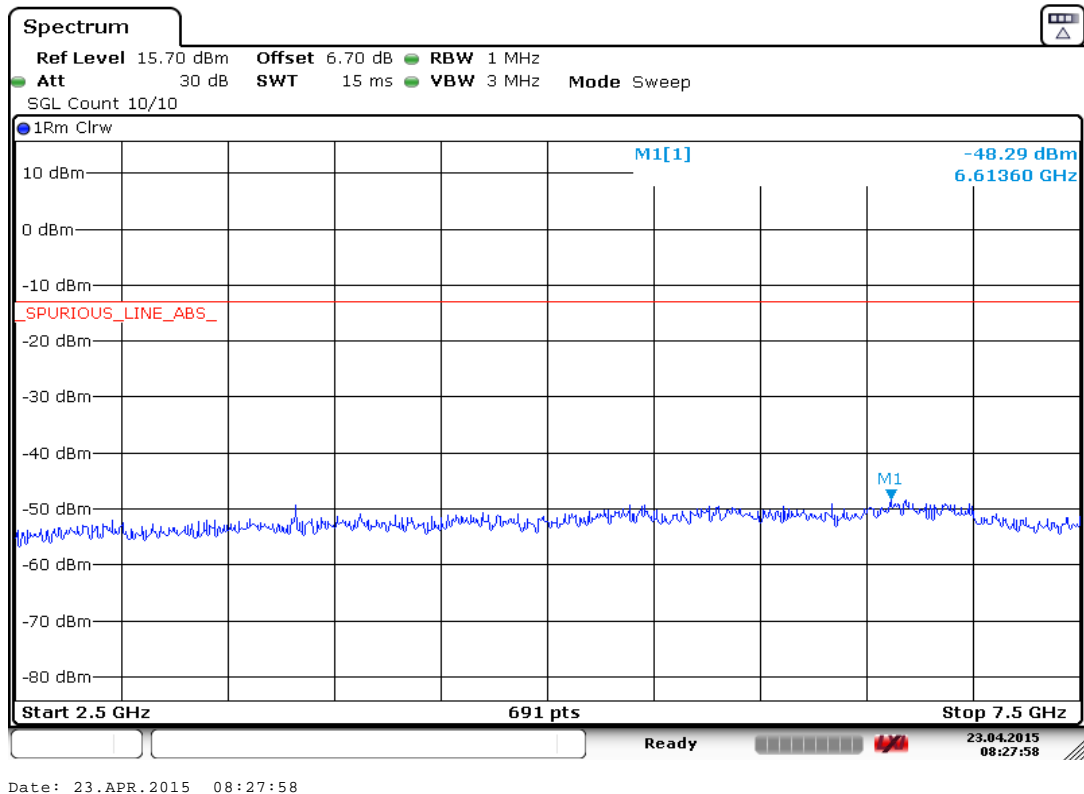
**NOTE: peak above the limit line is the carrier frequency.**



Date: 23.APR.2015 05:33:02

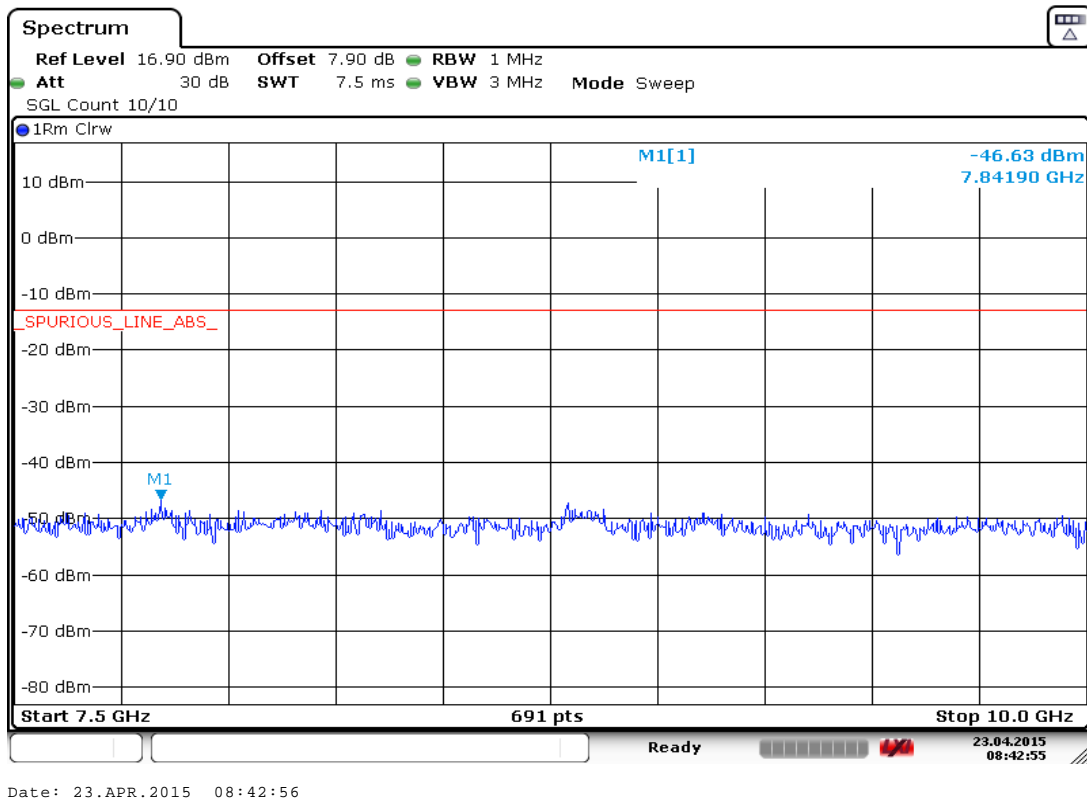
### A.6.3.15 Channel 1175: 2.5GHz –7.5GHz

Spurious emission limit –13dBm.



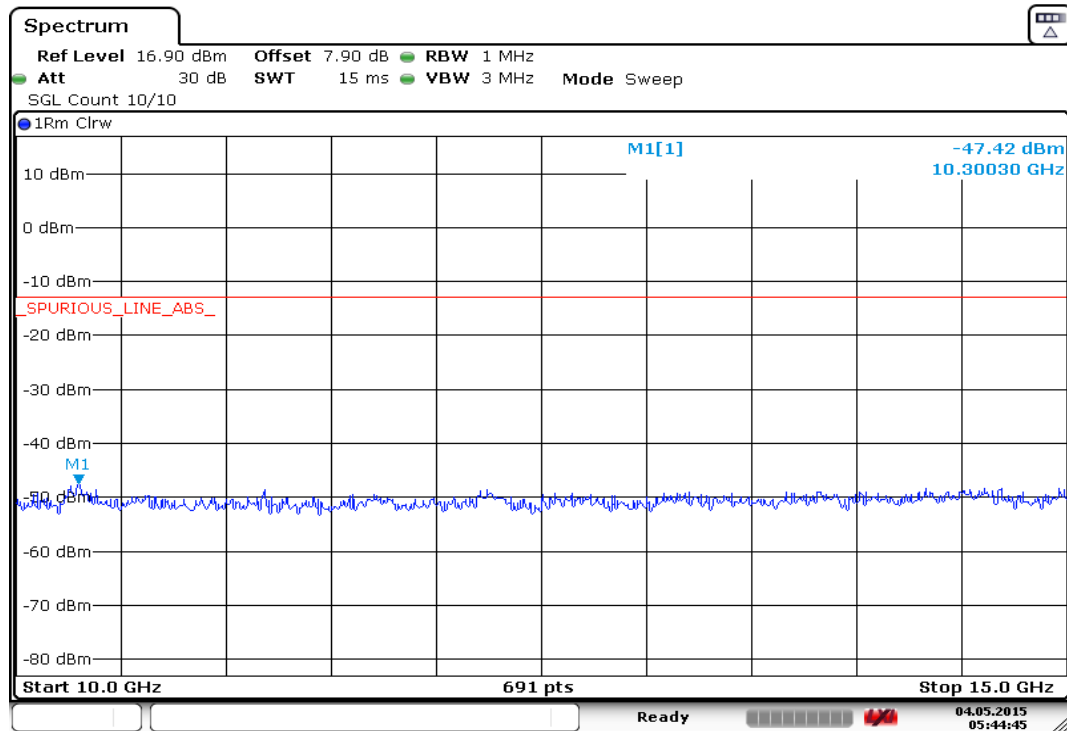
### A.6.3.16 Channel 1175: 7.5GHz –10GHz

Spurious emission limit –13dBm.



### A.6.3.17 Channel 1175: 10GHz –15GHz

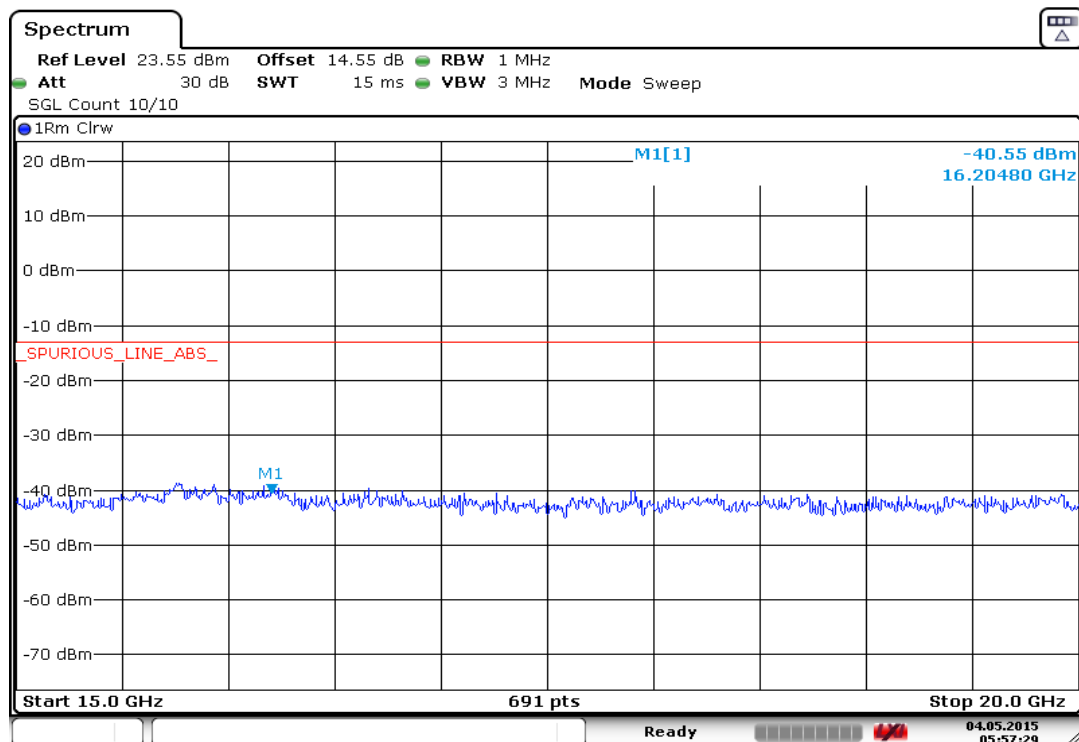
Spurious emission limit –13dBm.



Date: 4.MAY.2015 05:44:45

### A.6.3.18 Channel 1175: 15GHz –20GHz

Spurious emission limit –13dBm.

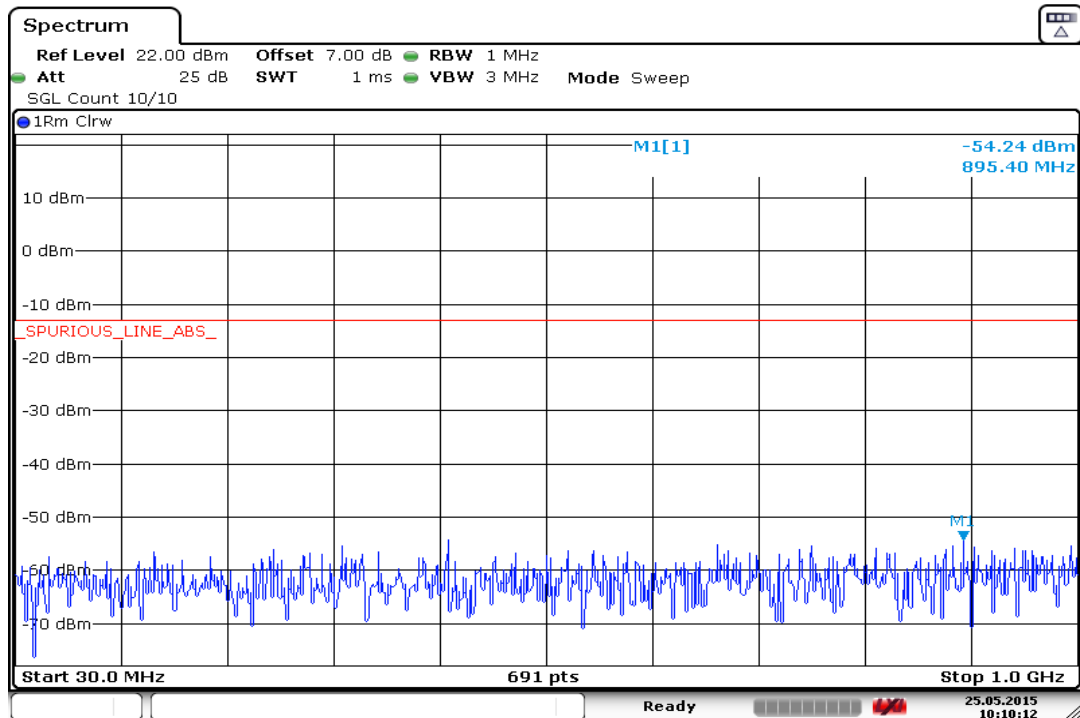


Date: 4.MAY.2015 05:57:29



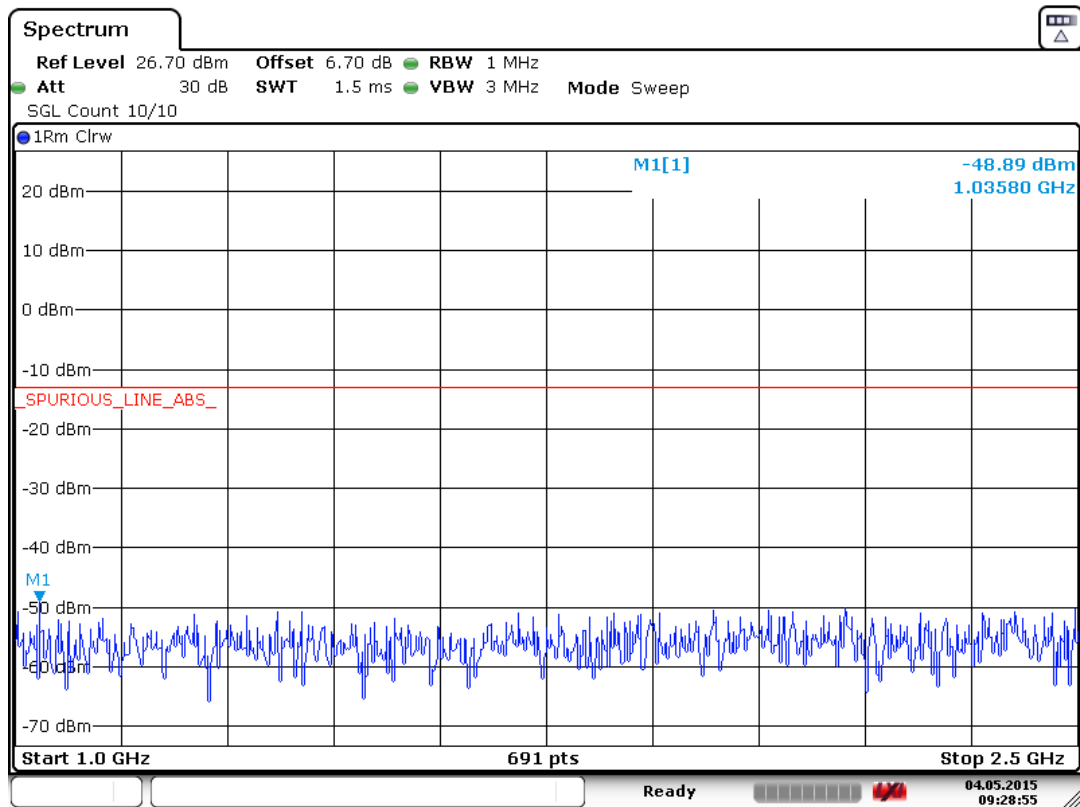
### A. 6.3.19 Idle mode: 30MHz –1GHz

Spurious emission limit –13dBm.



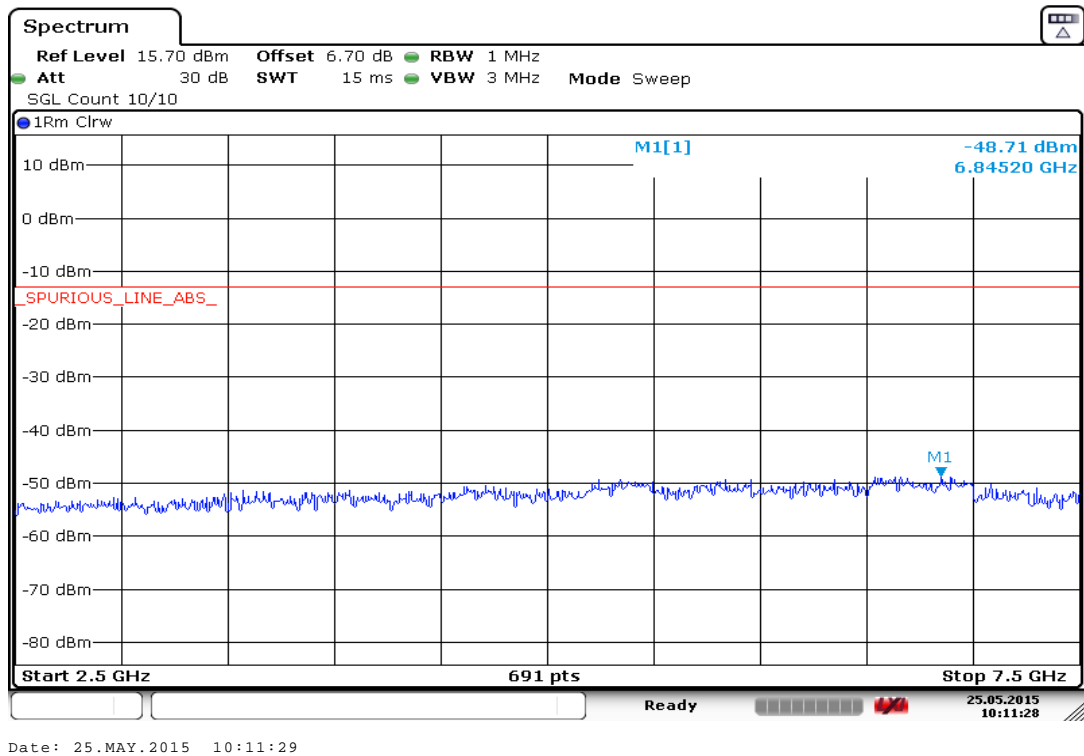
### A.6.3.20 Idle mode: 1GHz –2.5GHz

Spurious emission limit –13dBm.



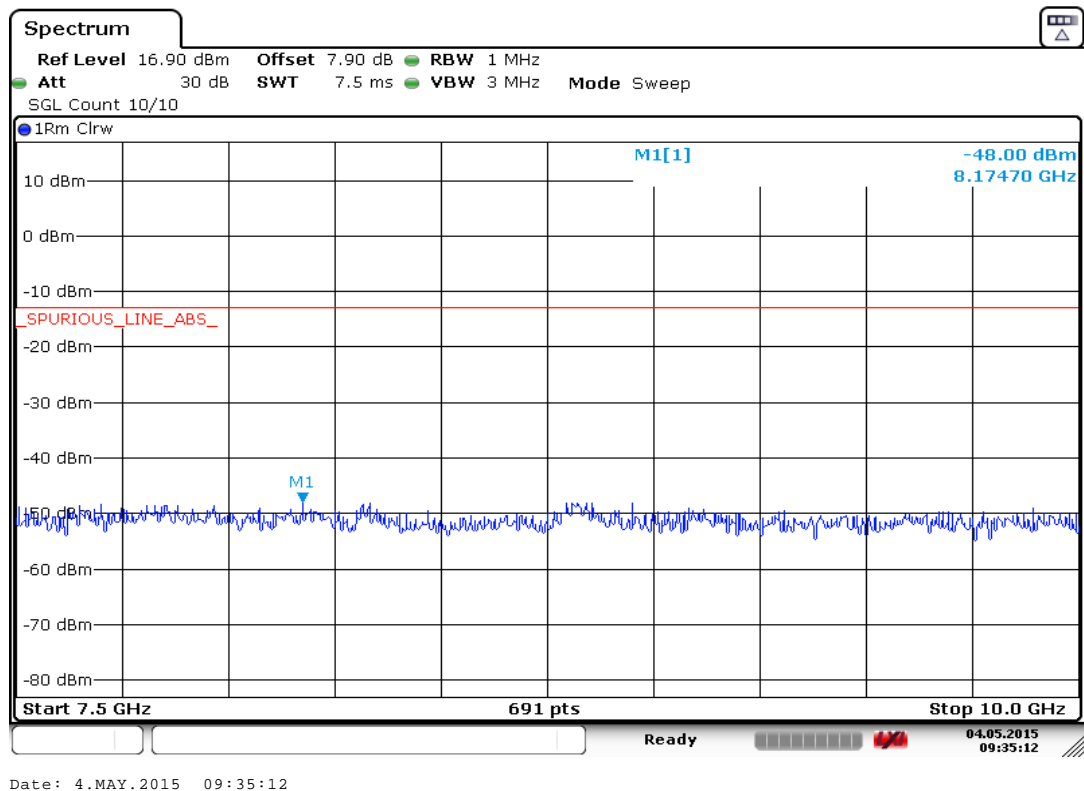
### A.6.3.21 Idle mode: 2.5GHz –7.5GHz

Spurious emission limit –13dBm.



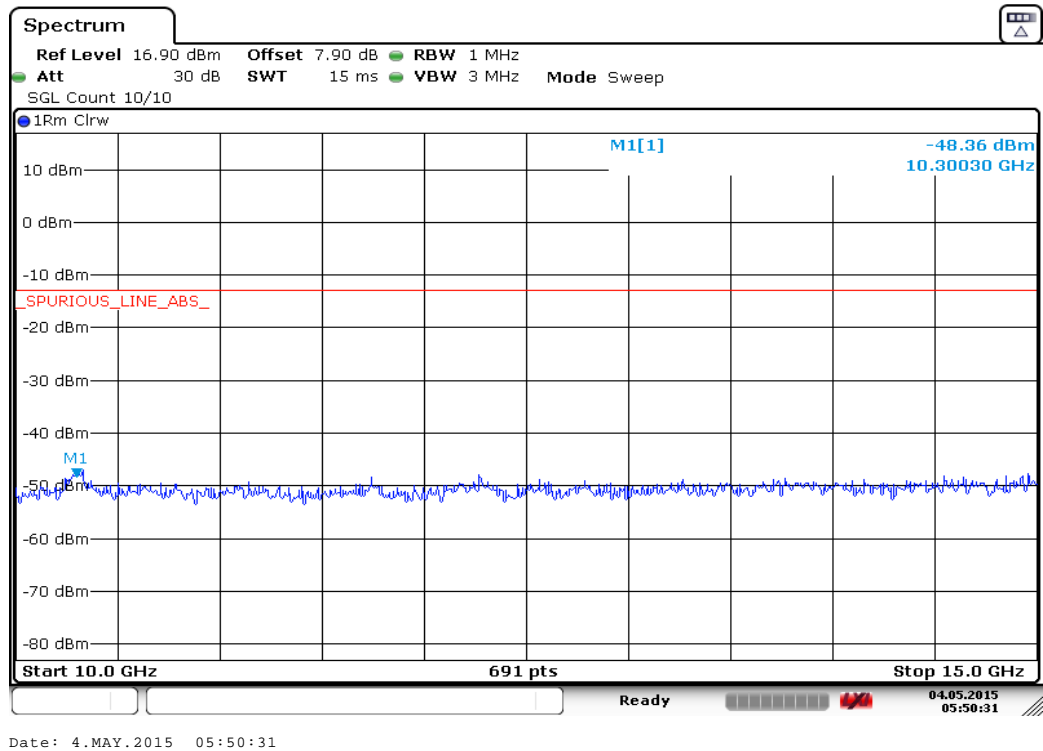
### A.6.3.22 Idle mode: 7.5GHz –10GHz

Spurious emission limit –13dBm.



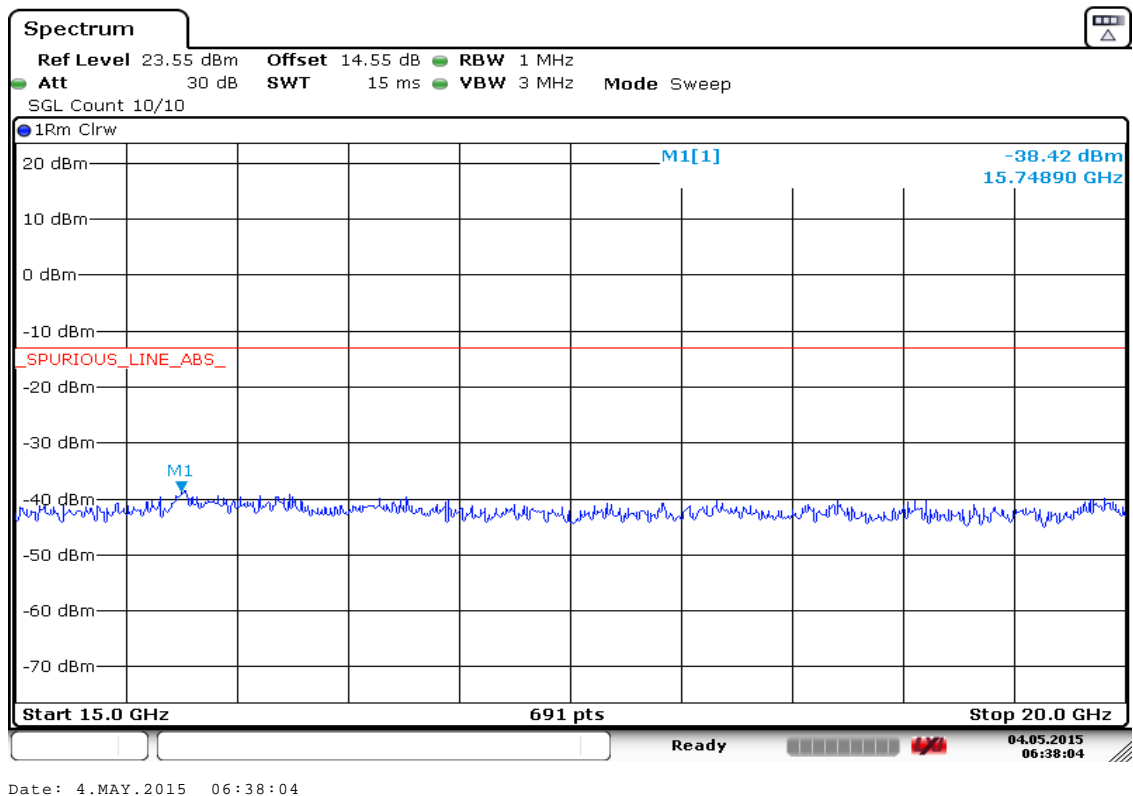
### A.6.3.23 Idle mode: 10GHz –15GHz

Spurious emission limit –13dBm.



### A.6.3.24 Idle mode: 15GHz –20GHz

Spurious emission limit –13dBm.

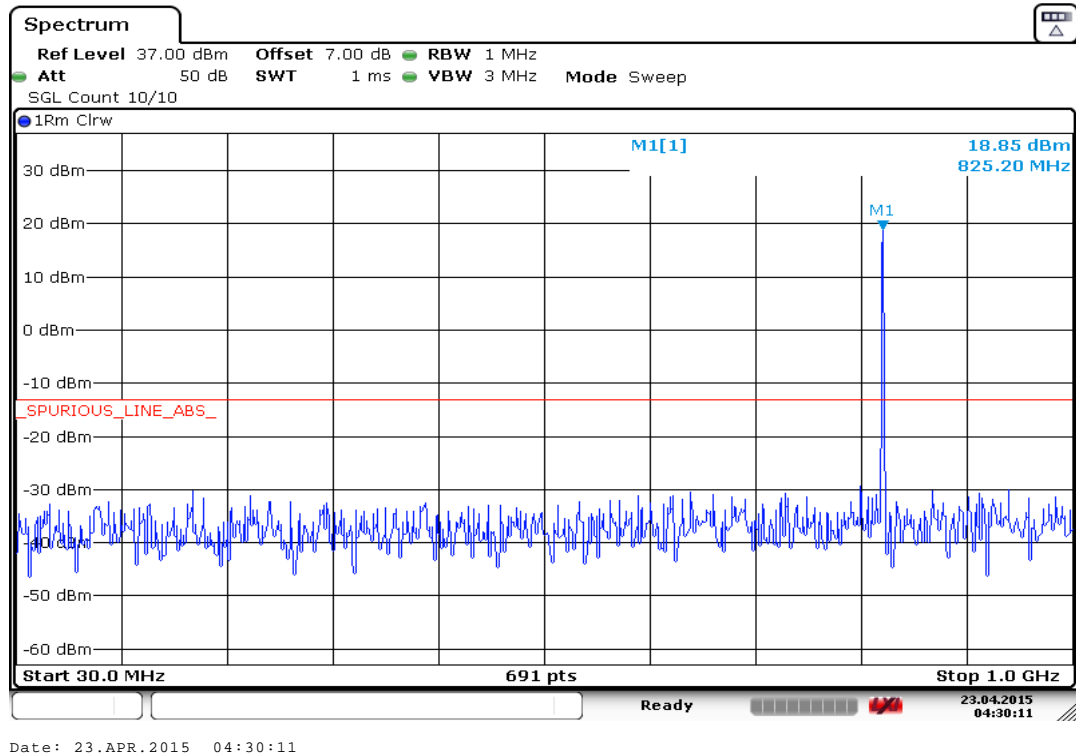


## CDMA 800

### A. 6.3.25 Channel 1013: 30MHz –1GHz

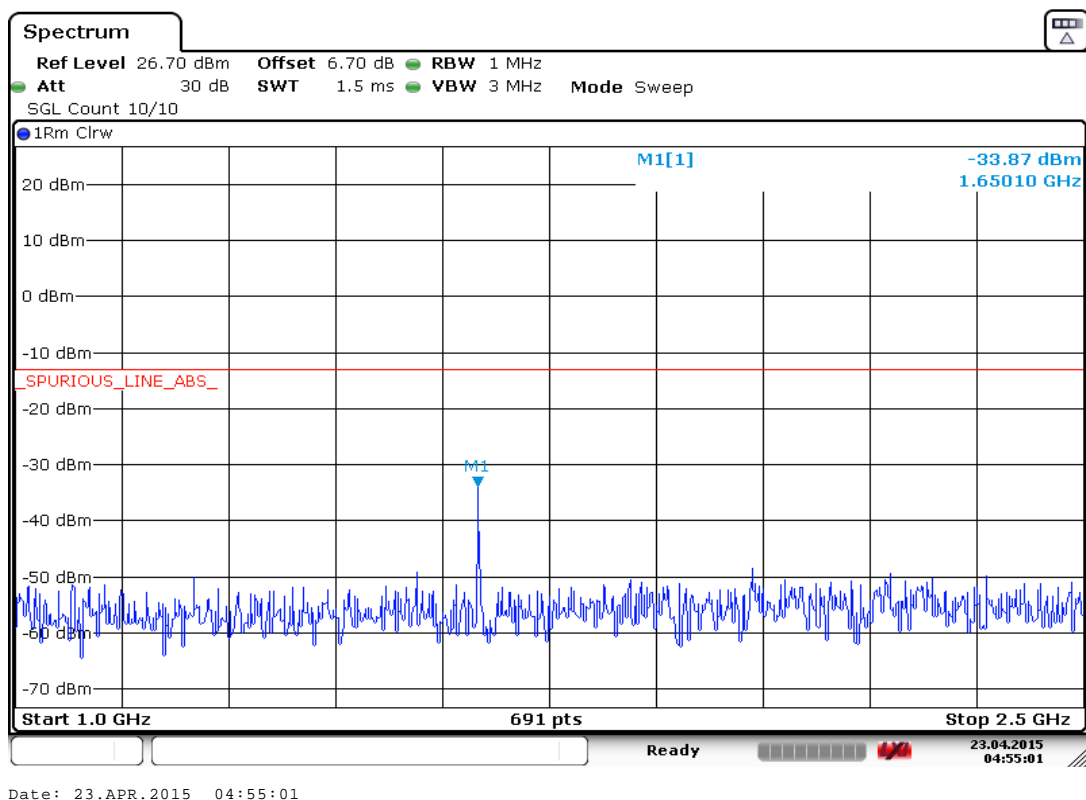
Spurious emission limit –13dBm.

**NOTE: peak above the limit line is the carrier frequency.**



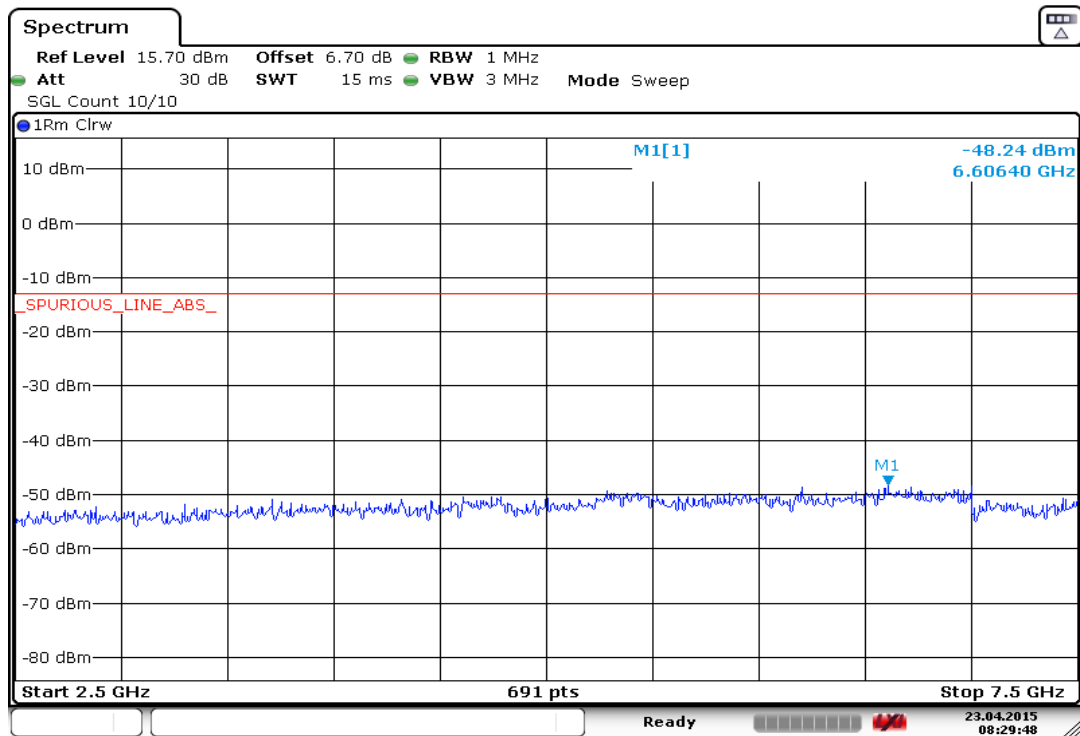
### A. 6.3.26 Channel 1013: 1GHz – 2.5GHz

Spurious emission limit –13dBm.



### A. 6.3.27 Channel 1013: 2.5GHz –7.5GHz

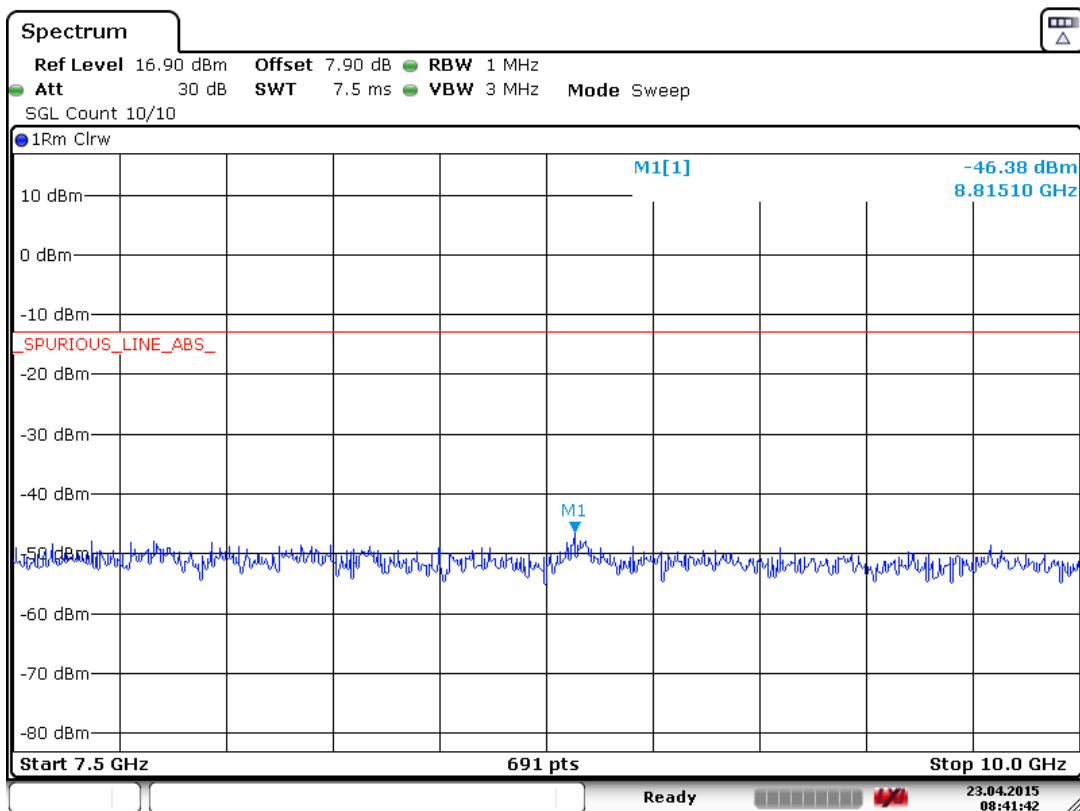
Spurious emission limit –13dBm.



Date: 23.APR.2015 08:29:49

### A. 6.3.28 Channel 1013: 7.5GHz – 10GHz

Spurious emission limit –13dBm.

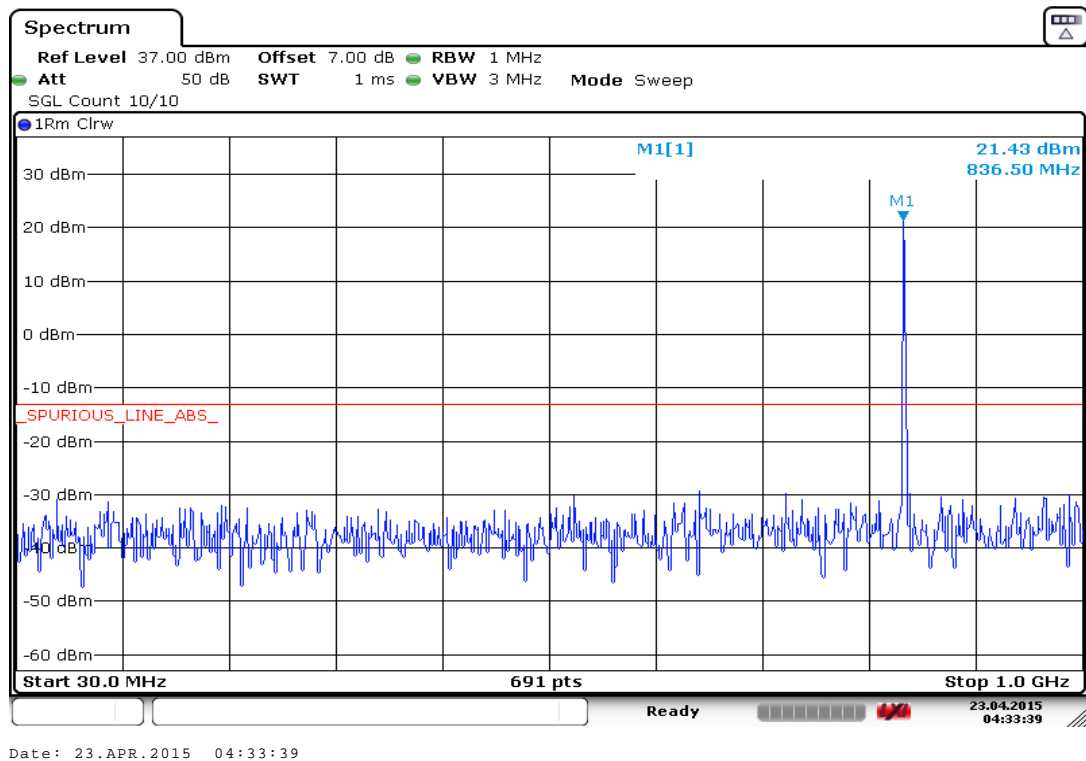


Date: 23.APR.2015 08:41:43

### A. 6.3.29 Channel 384: 30MHz –1GHz

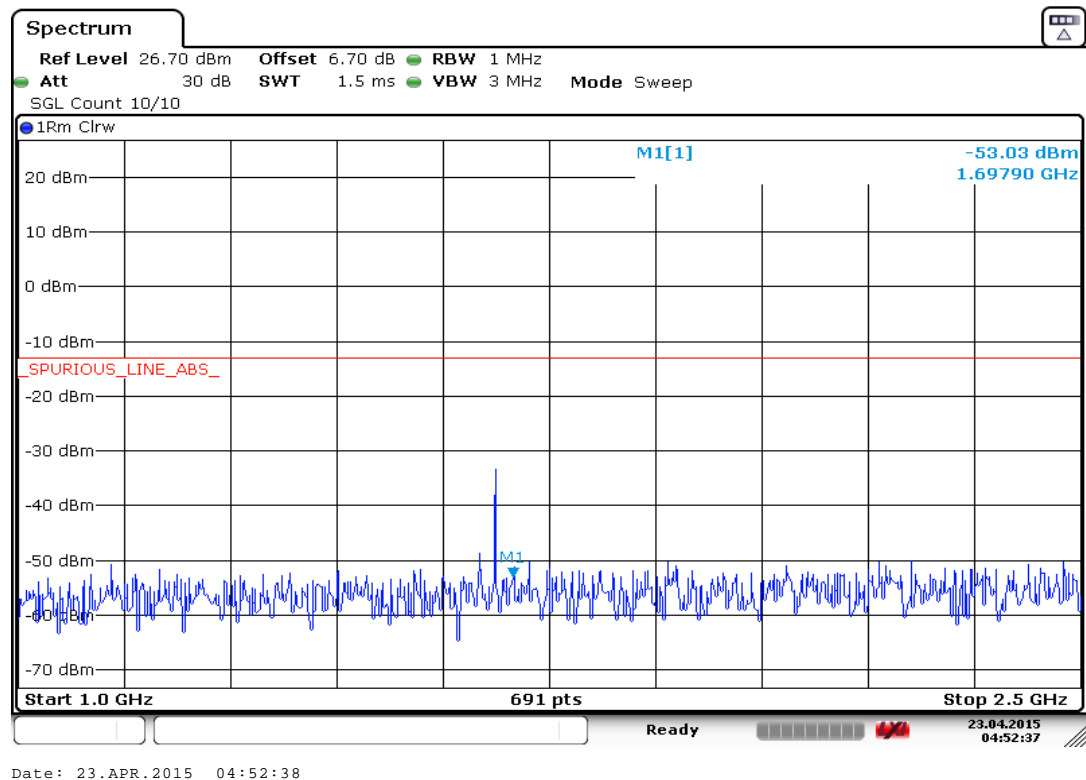
Spurious emission limit –13dBm.

**NOTE:** peak above the limit line is the carrier frequency.



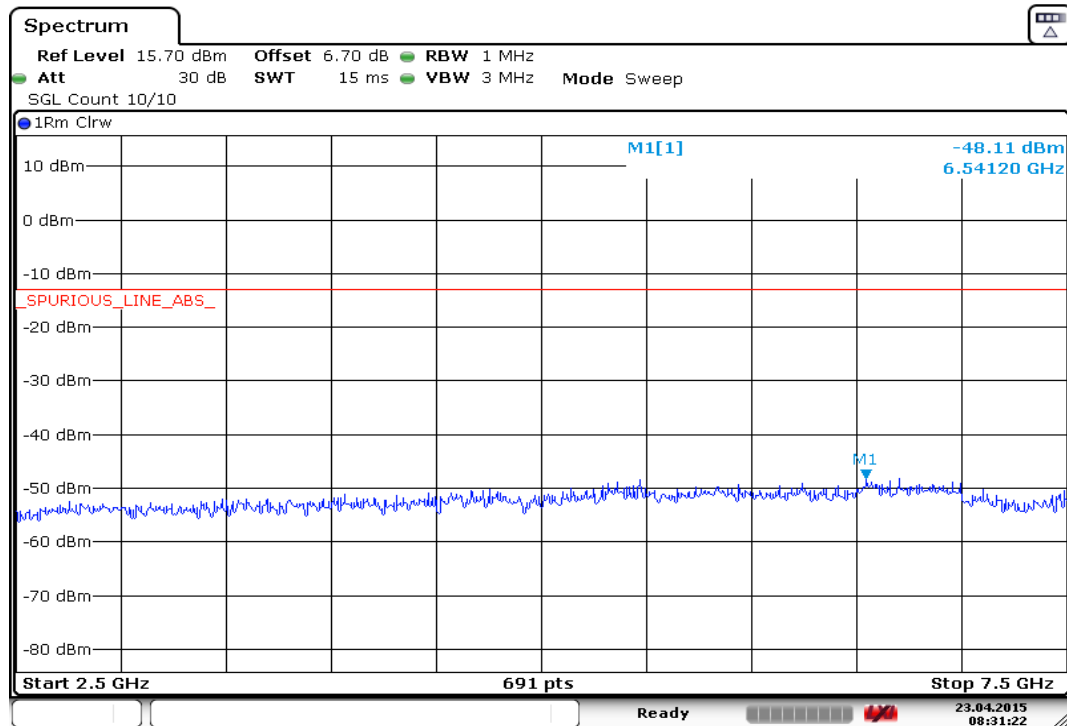
### A.6.3.30 Channel 384: 1GHz – 2.5GHz

Spurious emission limit –13dBm.



### A. 6.3.31 Channel 384: 2.5GHz –7.5GHz

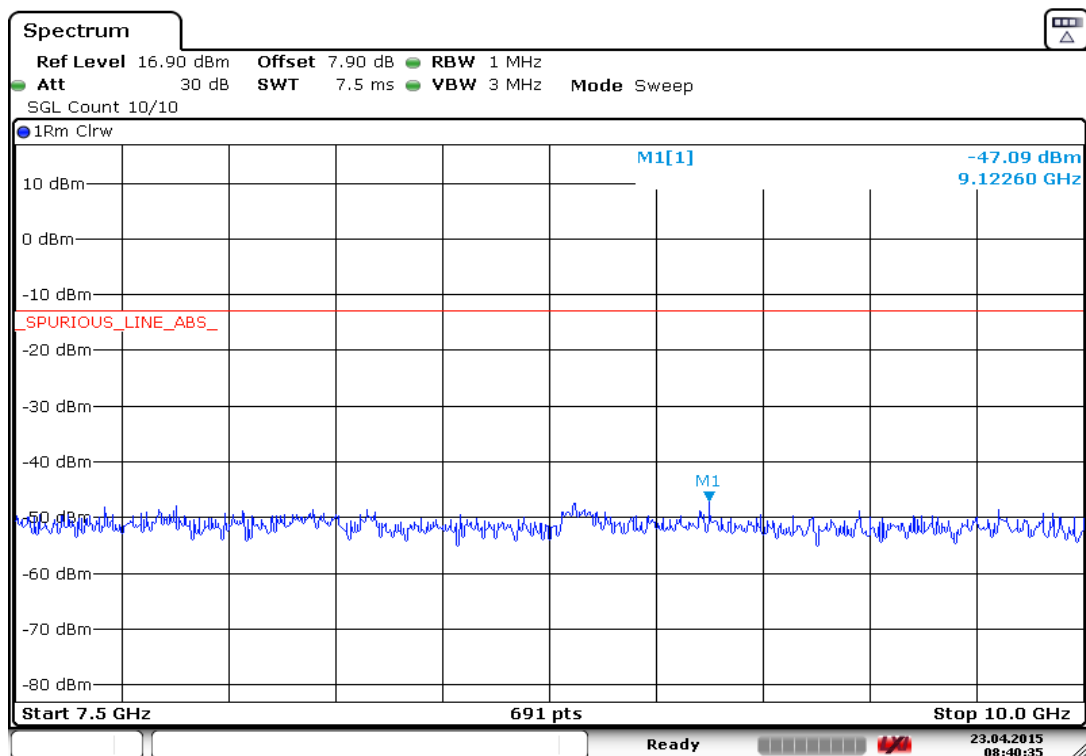
Spurious emission limit –13dBm.



Date: 23.APR.2015 08:31:23

### A. 6.3.32 Channel 384: 7.5GHz – 10GHz

Spurious emission limit –13dBm.

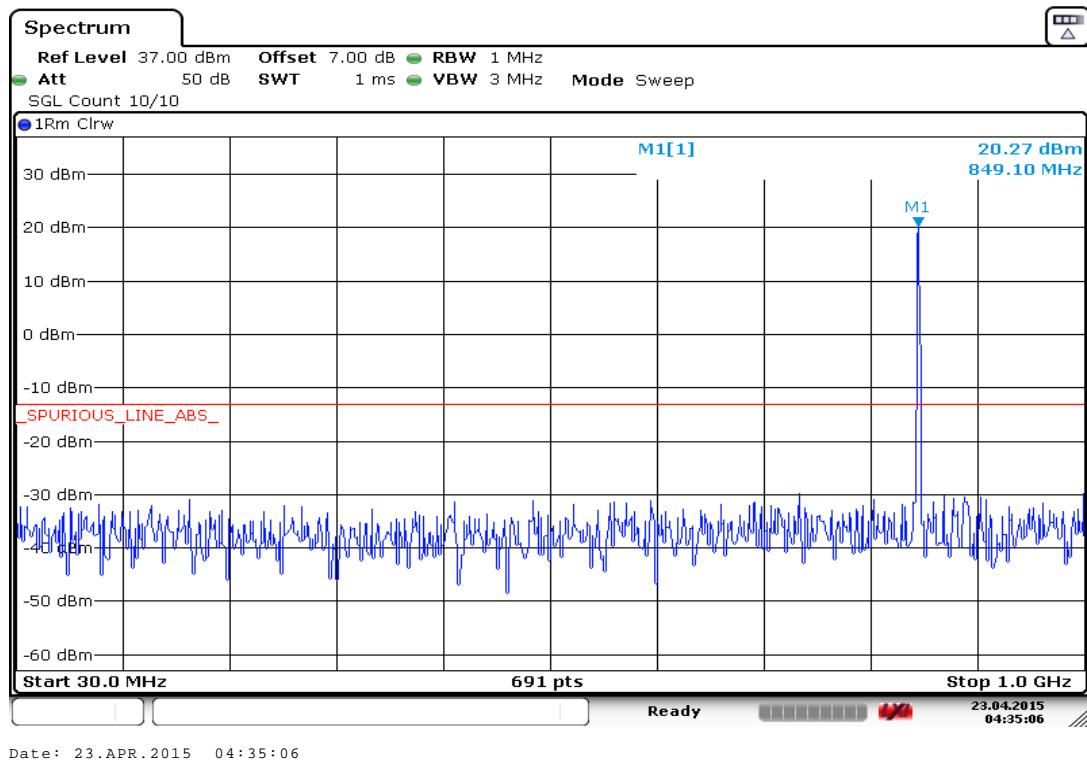


Date: 23.APR.2015 08:40:35

### A. 6.3.33 Channel 777: 30MHz –1GHz

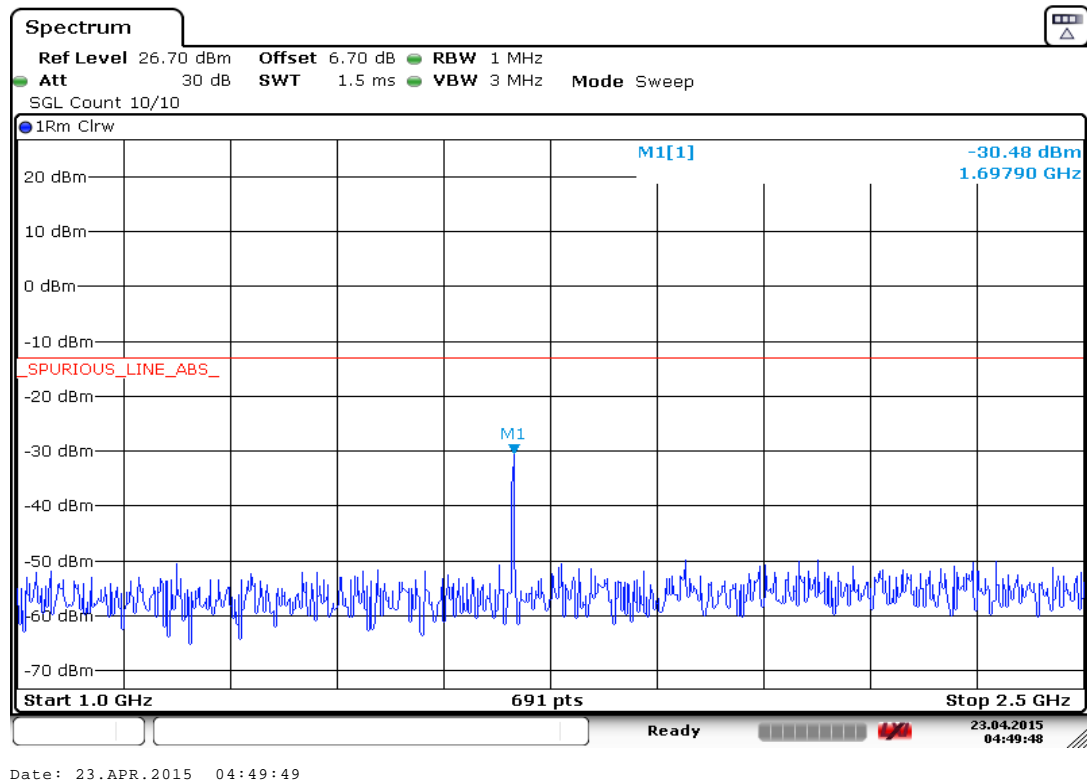
Spurious emission limit –13dBm.

**NOTE:** peak above the limit line is the carrier frequency.



### A. 6.3.34 Channel 777: 1GHz – 2.5GHz

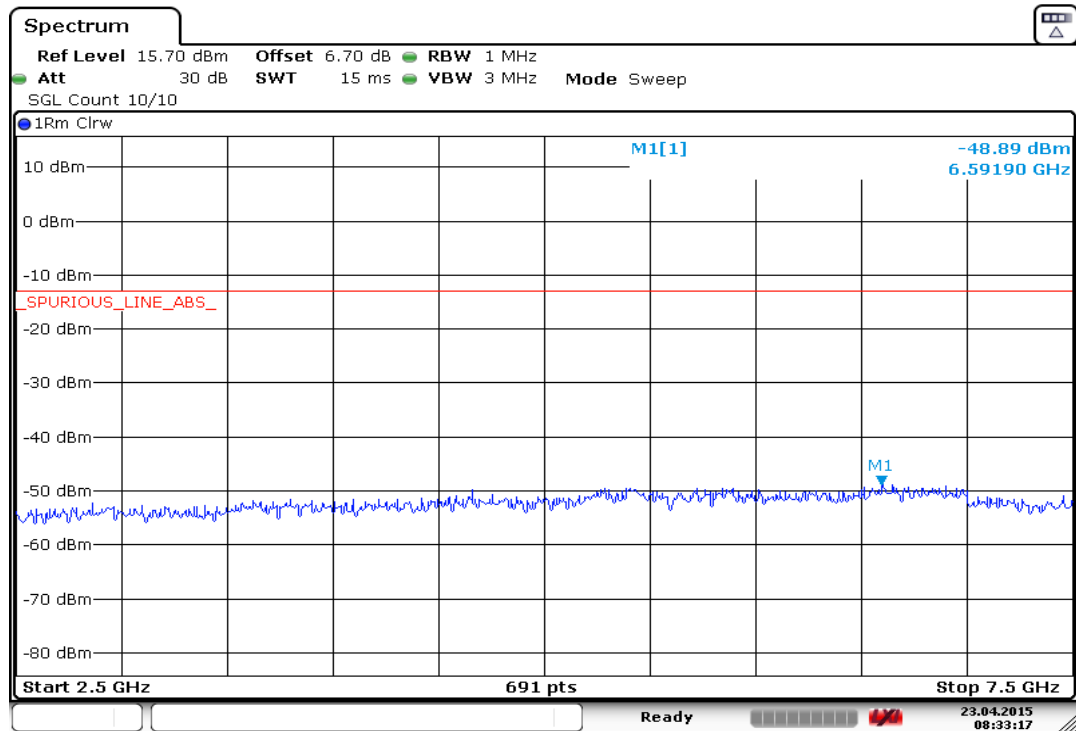
Spurious emission limit –13dBm.





### A. 6.3.35 Channel 777: 2.5GHz –7.5GHz

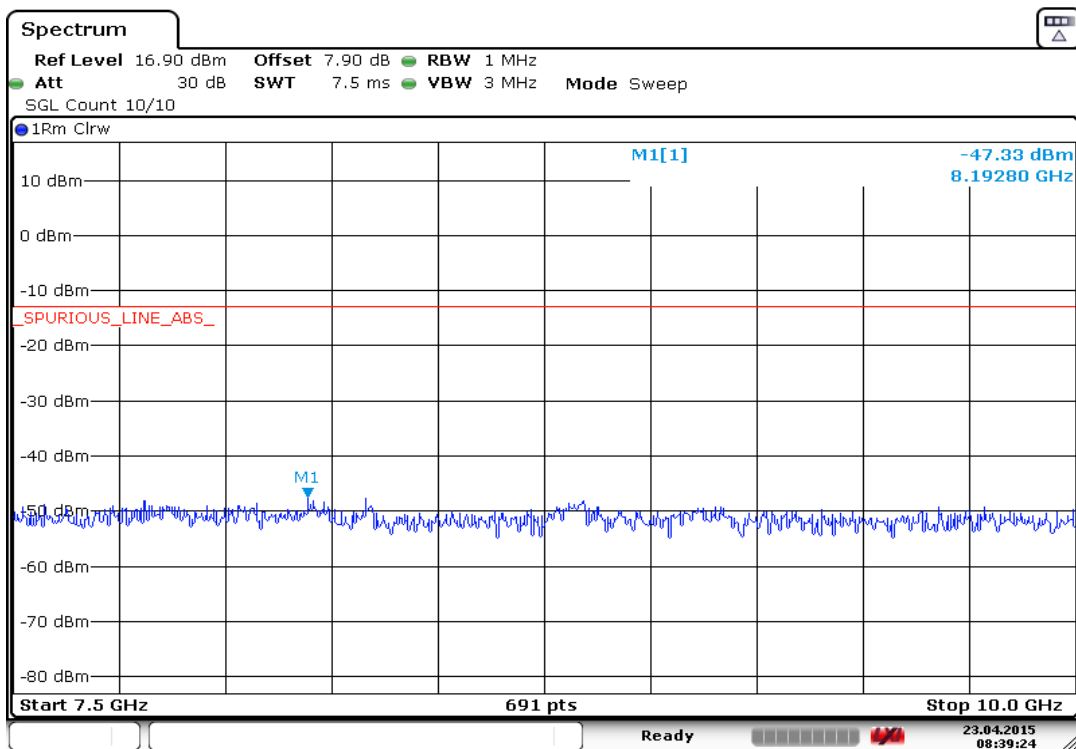
Spurious emission limit –13dBm.



Date: 23.APR.2015 08:33:18

### A. 6.3.36 Channel 777: 7.5GHz – 10GHz

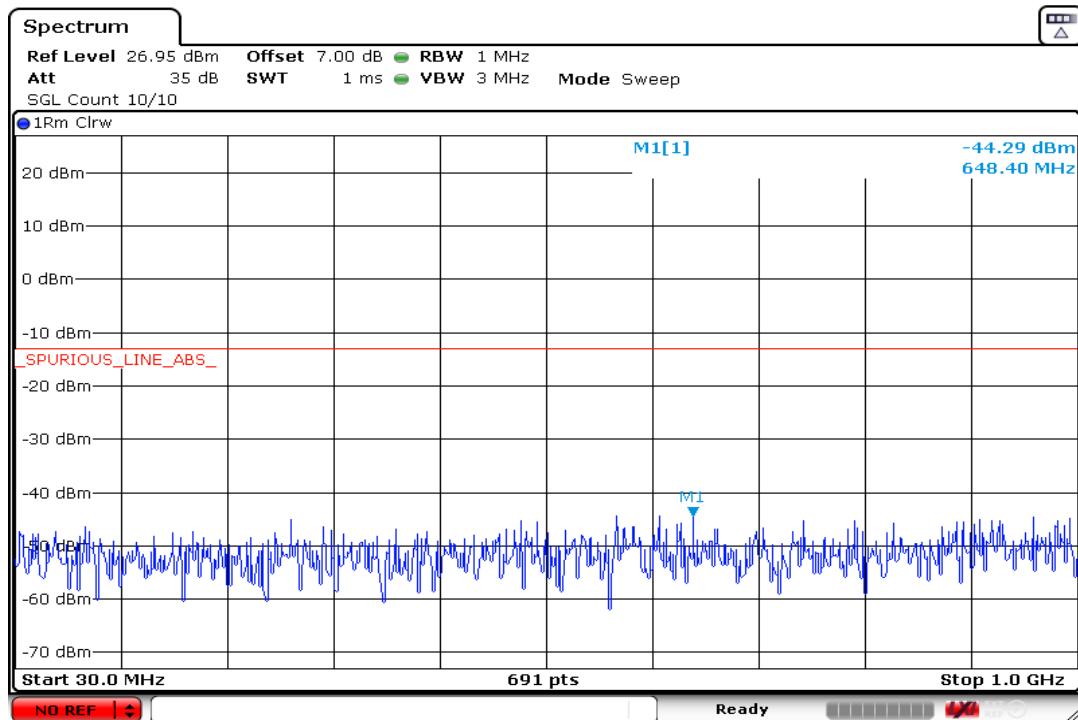
Spurious emission limit –13dBm.



Date: 23.APR.2015 08:39:24

### A. 6.3.37 Idle mode: 30MHz – 1GHz

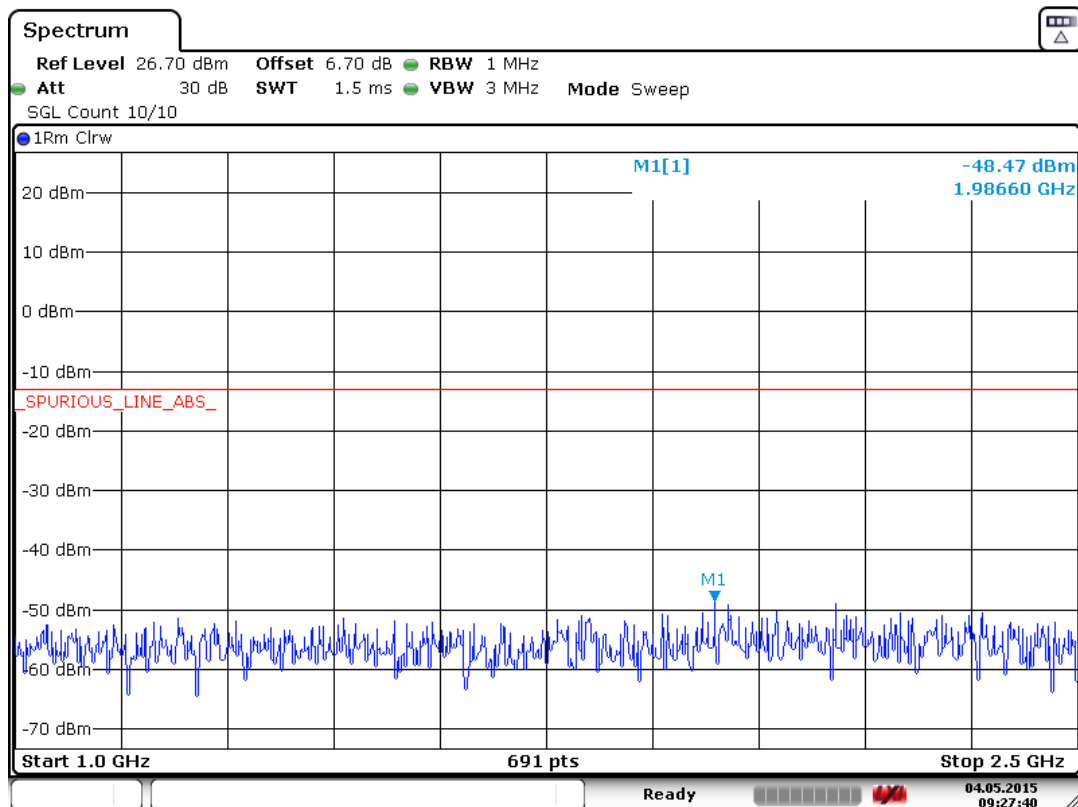
Spurious emission limit -13dBm.



Date: 26.MAY.2015 03:41:11

### A.6.3.38 Idle mode: 1GHz – 2.5GHz

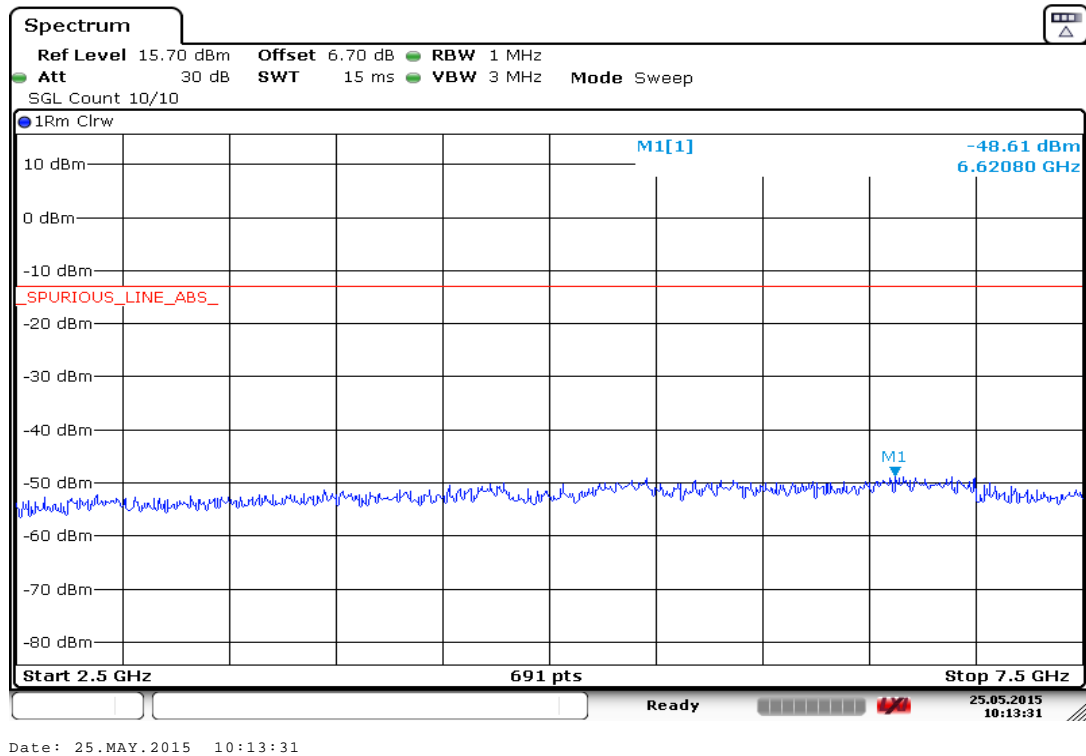
Spurious emission limit -13dBm.



Date: 4.MAY.2015 09:27:40

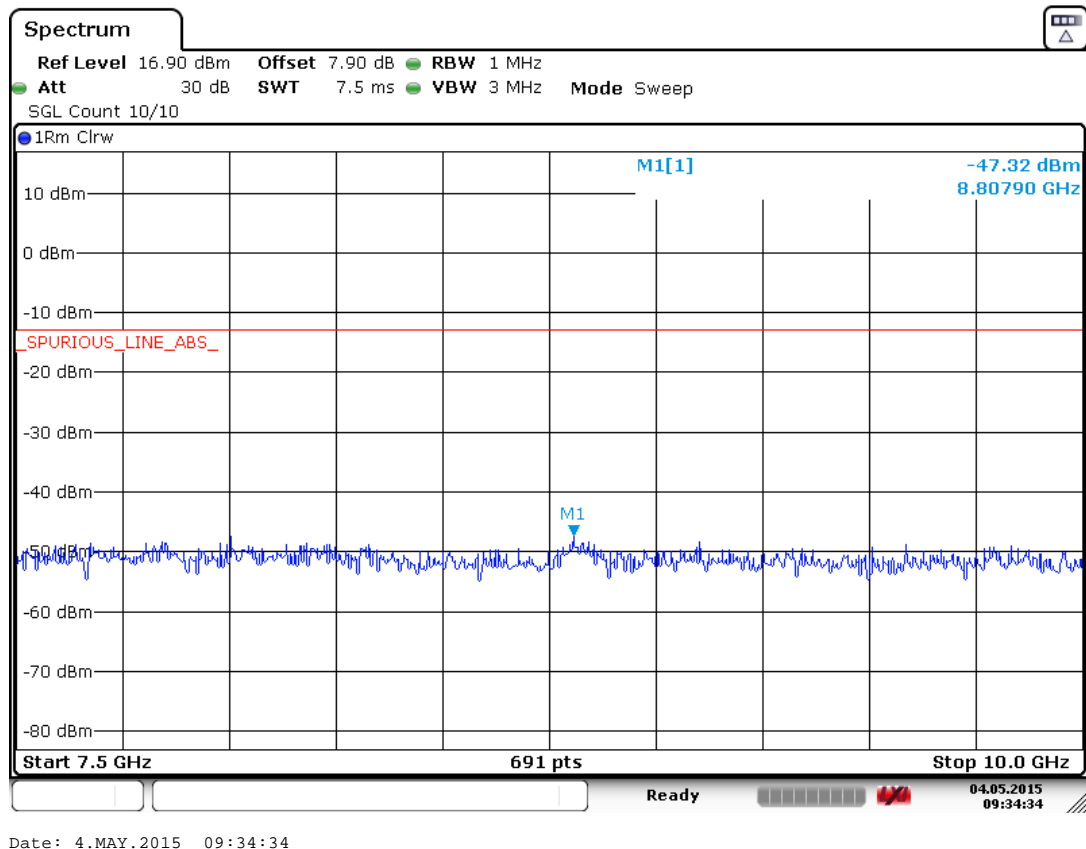
### A.6.3.39 Idle mode: 2.5GHz – 7.5GHz

Spurious emission limit -13dBm.



### A.6.3.40 Idle mode: 7.5GHz – 10GHz

Spurious emission limit -13dBm.





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