



# TEST REPORT

No. I1640549-CTE01

for

**TCL Communication Ltd.**

**CDMA/LTE/GSM/UMTS mobile phone**

**Model Name: 5027B**

**FCC ID: 2ACCJB053**

with

**Hardware Version: VC**

**Software Version: 5027BAS8**

**Issued Date: 2016-4-7**

**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.733176**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I1640549-CTE01	Rev.0	1st edition	2016-4-7

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## **1. Test Laboratory**

### **1.1. Testing Location**

Company Name: CTTL(huayuan North Road)  
Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China  
100191  
Postal Code: 100191

### **1.2. Testing Environment**

Normal Temperature: 15-35℃  
Relative Humidity: 20-80%

### **1.3. Project data**

Testing Start Date: Mar. 22th,2016  
Testing End Date: Apr. 7th,2016

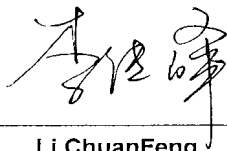
### **1.4. Signature**



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Zhu Jun

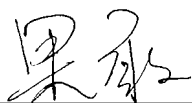
(Prepared this test report)



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Li ChuanFeng

(Reviewed this test report)



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Guo Gan

Deputy Director of the laboratory  
(Approved this test report)

## **2. Client Information**

### **2.1. Applicant Information**

Company Name: TCL Communication Ltd.  
Address /Post: 5F, C building, No. 232, Liang Jing Road, ZhangJiang High-Tech  
Park, Pudong Area, Shanghai, P.R. China.  
City: Shanghai  
Postal Code: 201203  
Country: China  
Contact Person: Zhizhou Gong  
Contact Email: zhizhou.gong@tcl.com  
Telephone: +86 21 31363544  
Fax: +86 21 61460602

### **2.2. Manufacturer Information**

Company Name: TCL Communication Ltd.  
Address /Post: 5F, C building, No. 232, Liang Jing Road, ZhangJiang High-Tech  
Park, Pudong Area, Shanghai, P.R. China.  
City: Shanghai  
Postal Code: 201203  
Country: China  
Contact Person: Zhizhou Gong  
Contact Email: zhizhou.gong@tcl.com  
Telephone: +86 21 31363544  
Fax: +86 21 61460602

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

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

Description	CDMA/LTE/GSM/UMTS mobile phone
Model	5027B
FCC ID	2ACCJB053
Frequency	CDMA800MHz(BC0);CDMA1900MHz(BC1)
Antenna	Internal
Power supply	Battery or Charger (AC Adaptor)
Extreme vol. Limits	3.5VDC to 4.35VDC (nominal: 3.8 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>
UT40a	35790707000137	VC	5027BAS8

\*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	CAB1780002C1
AE2	Normal Charger	CBA0066AG0C2

##### **AE1**

Model	LI-ION Battery
Manufacturer	BYD
Capacitance	1780mAh
Nominal Voltage	3.8V

##### **AE2**

Model	Normal Charger
Manufacturer	Ten Pao Industrial Co Ltd

\*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 CDMA/LTE/GSM/UMTS mobile phone 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	V10-1-15
FCC Part 22	PUBLIC MOBILE SERVICES	V10-1-15
FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS;GENERAL RULES AND REGULATIONS	V10-1-15
ANSI/TIA-603-D	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2015
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	2014
KDB 971168 D01	Measurement Guidance for Certification of Licensed Digital Transmitters	v02r02

## 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(c)	Pass
2	Frequency Stability	2.1055/22.355/24.235	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)	Pass
6	Conducted Spurious Emission	2.1057/22.917/24.238	Pass
7	Peak to Average Power Ratio	24.232(d)	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	2017-2-1
2	Wireless Communications Test Set	8960(E5515C)	GB461603 13	Agilent	1 Year	2016-7-22
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(c))

#### **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 max 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 (average).

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 .

The measurement method is from KDB 971168 D01 5.2.1:

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW  $\geq 3 \times$  RBW.
- d) Set number of points in sweep  $\geq 2 \times$  span / RBW.
- e) Sweep time = auto-couple.
- f) Detector = RMS (power averaging).
- g) If the EUT can be configured to transmit continuously (i.e., burst duty cycle  $\geq 98\%$ ), then set the trigger to free run.
- h) If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle  $< 98\%$ ), then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Ensure that the sweep time is less than or equal to the transmission burst duration.
- i) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with the band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

### A1.3 Measurement results

#### CDMA 800

##### Measurement result

Channel	Frequency(MHz)	Channel power(dBm)		
		1x RTT	1xEVDO	
			Rel0	RevA
1013	824.70	23.47	24.03	23.73
384	836.52	23.40	23.14	23.89
777	848.31	23.21	23.36	23.52

#### CDMA 1900

##### Measurement result

Channel	Frequency(MHz)	Channel power(dBm)		
		1x RTT	1xEVDO	
			Rel0	RevA
25	1851.25	22.50	22.96	22.59
600	1880.00	22.52	22.54	23.34
1175	1908.75	22.57	22.81	23.02

## **A.2 FREQUENCY STABILITY** (§2.1055/§22.355/§24.235)

### **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.

For CDMA800, according to section. 22.355, frequency tolerance cab be maintained within 2.5ppm.

#### **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. For CDMA800, according to section. 22.355, frequency tolerance can be maintained within 2.5ppm.

### A.2.3 Measurement results

#### CDMA 800

##### Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	1.13	0.001
3.8	0.61	0.001
4.35	0.90	0.001

##### Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-2.88	0.002
-20	-1.68	0.002
-10	-0.56	0.002
0	0.66	0.001
10	0.27	0.001
20	0.61	0.001
30	0.35	0.001
40	-0.52	0.001
50	-1.03	0.001



**CDMA 1900**

**Frequency Error vs Voltage**

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	-0.43	0.001
3.8	-0.29	0.001
4.35	-1.85	0.001

**Frequency Error vs Temperature**

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-1.15	0.001
-20	-0.67	0.001
-10	-0.32	0.001
0	-0.71	0.001
10	0.43	0.001
20	-0.01	0.001
30	-0.29	0.001
40	-0.65	0.001
50	-1.87	0.001

### **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 99% BW. Spectrum analyzer plots are included on the following pages.

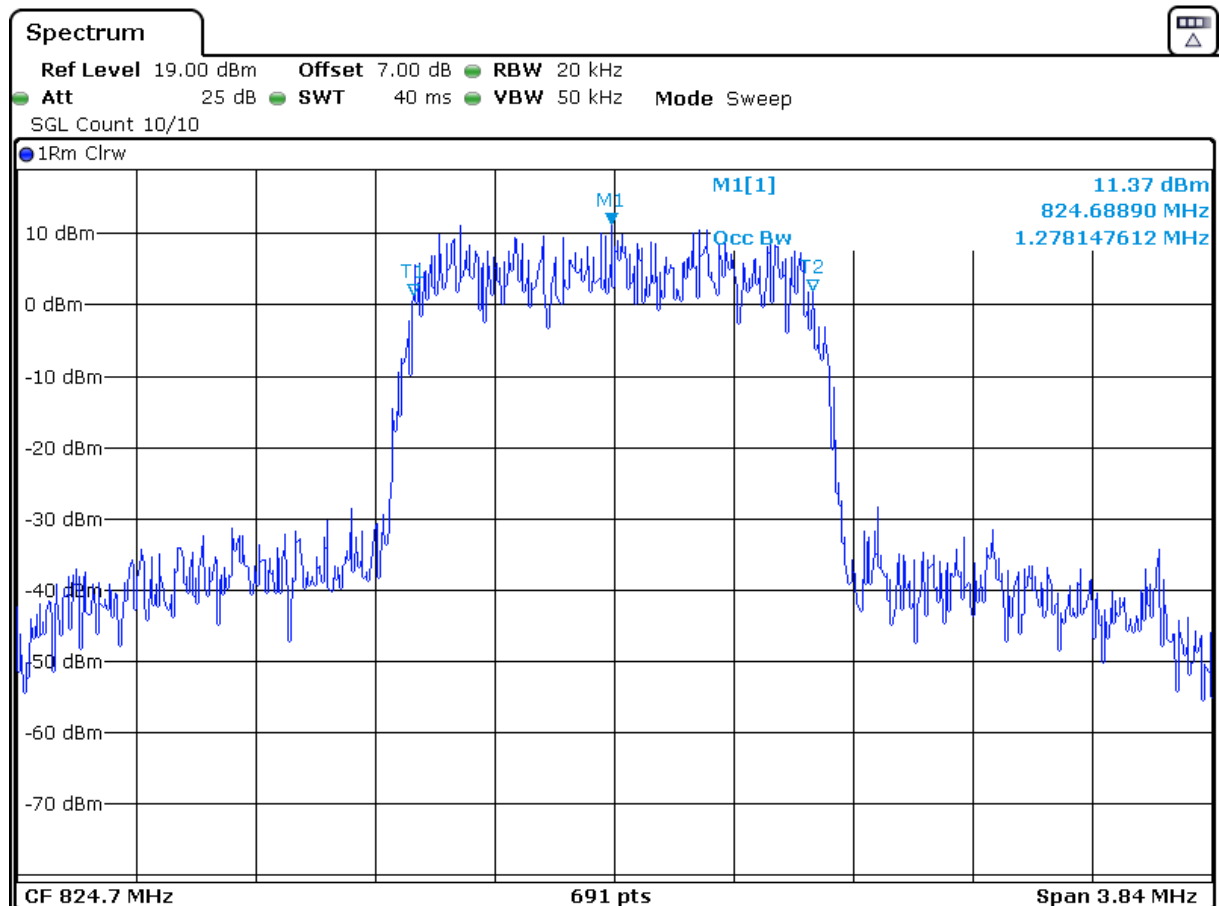
#### **CDMA 800 (99% BW)**

Channel	Occupied Bandwidth (99% BW)( MHz)
1013	1.278
384	1.278
777	1.289

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

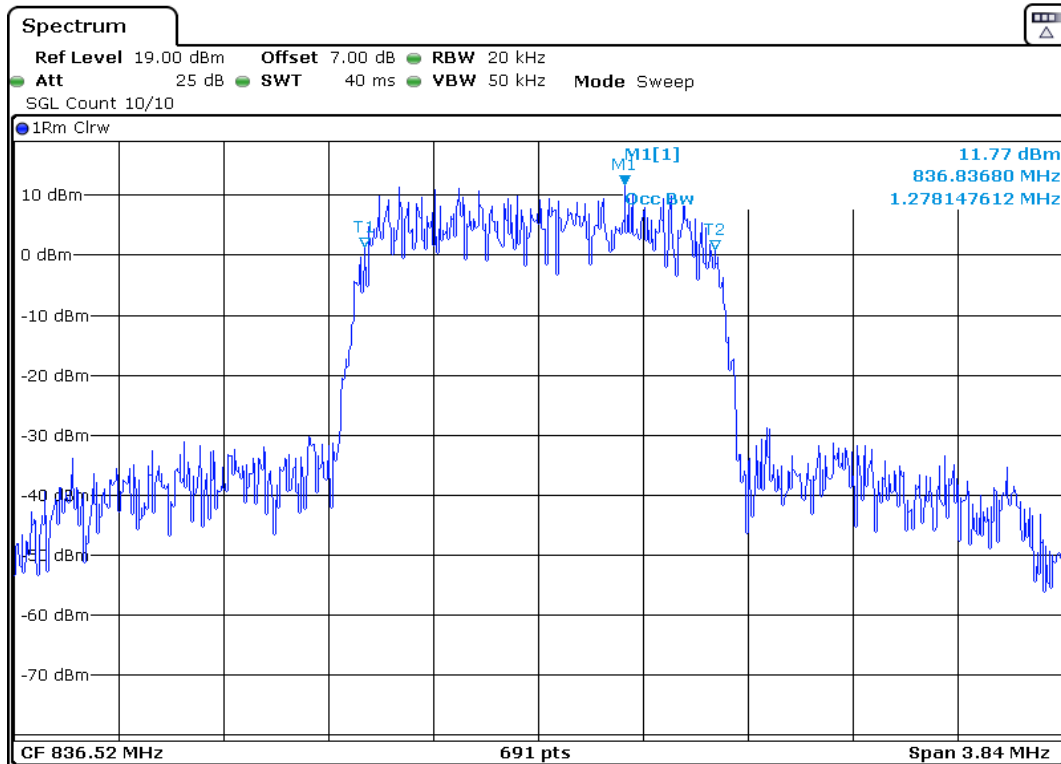
#### **CDMA 800**

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



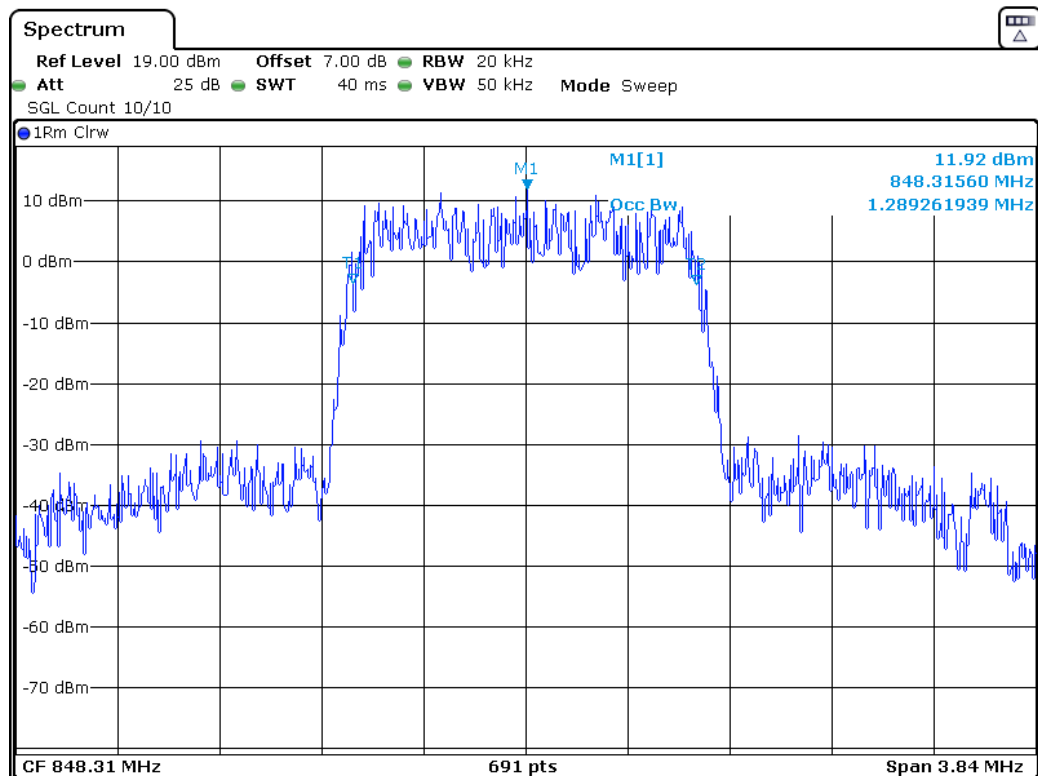
Date: 24.MAR.2016 10:04:12

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



Date: 24.MAR.2016 09:02:54

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



Date: 24.MAR.2016 09:21:37



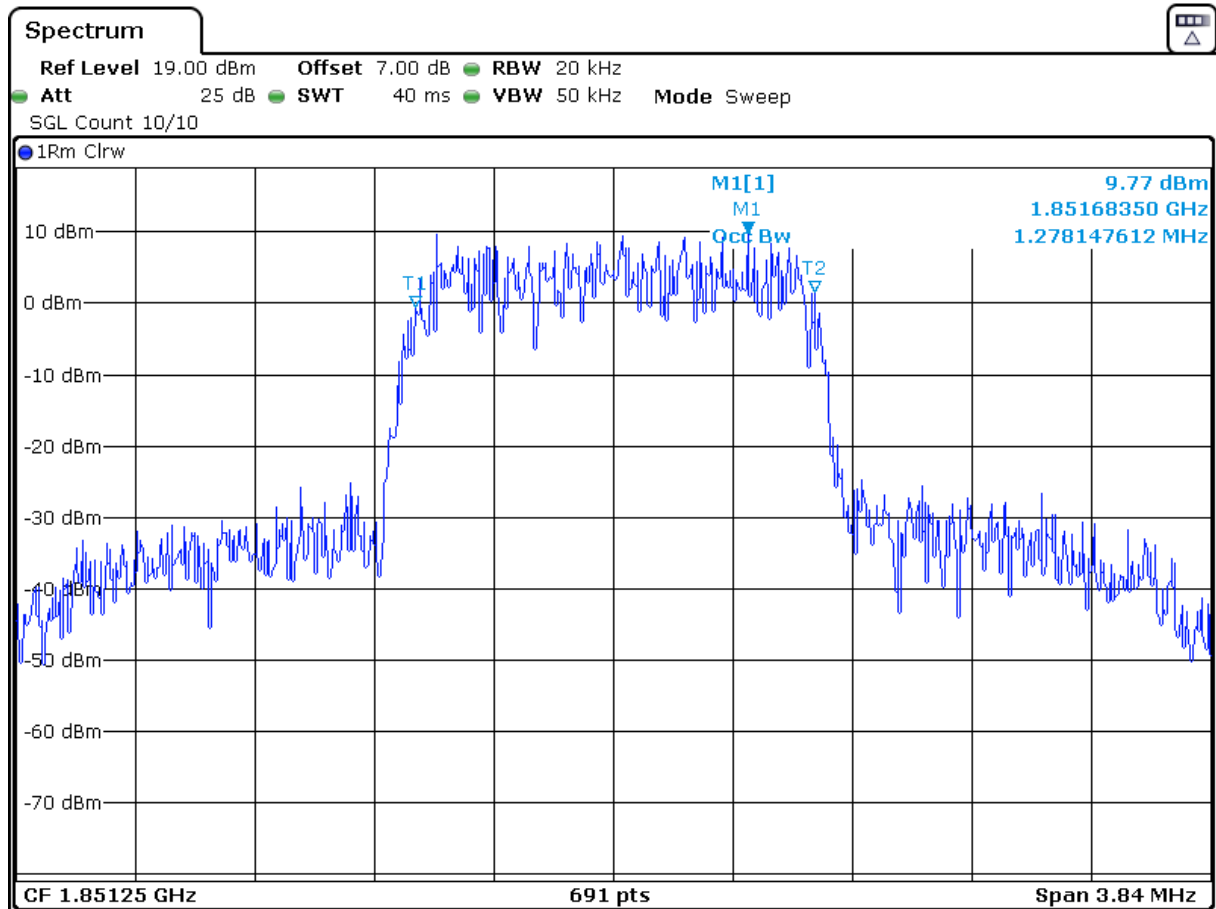
### CDMA 1900(99% BW)

Channel	Occupied Bandwidth (99% BW)( MHz)
25	1.278
600	1.261
1175	1.256

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

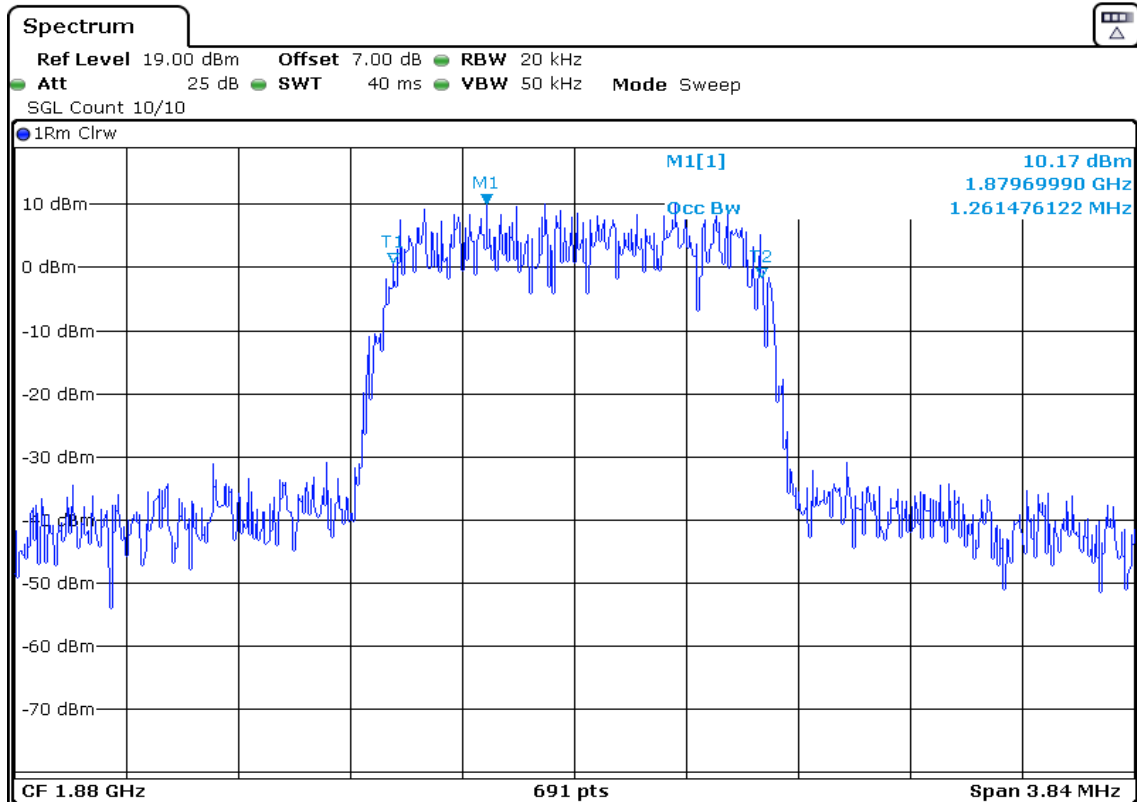
### CDMA 1900

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



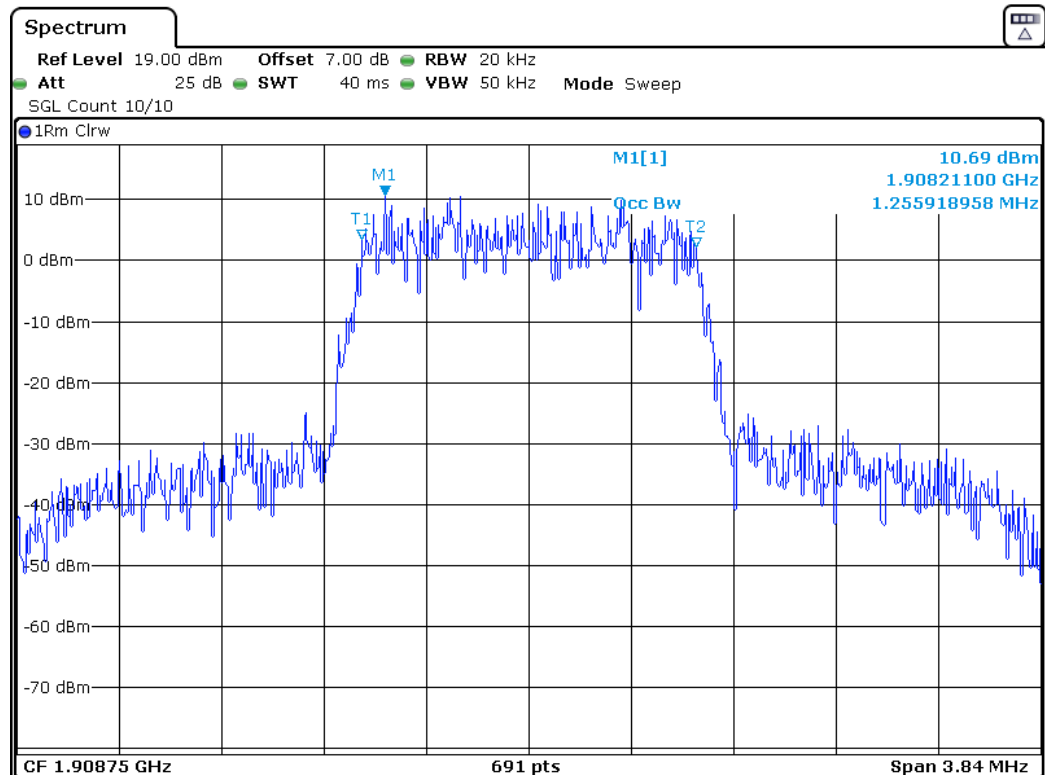
Date: 24.MAR.2016 09:19:53

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



Date: 24.MAR.2016 04:18:56

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



Date: 24.MAR.2016 09:18:02

## **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.

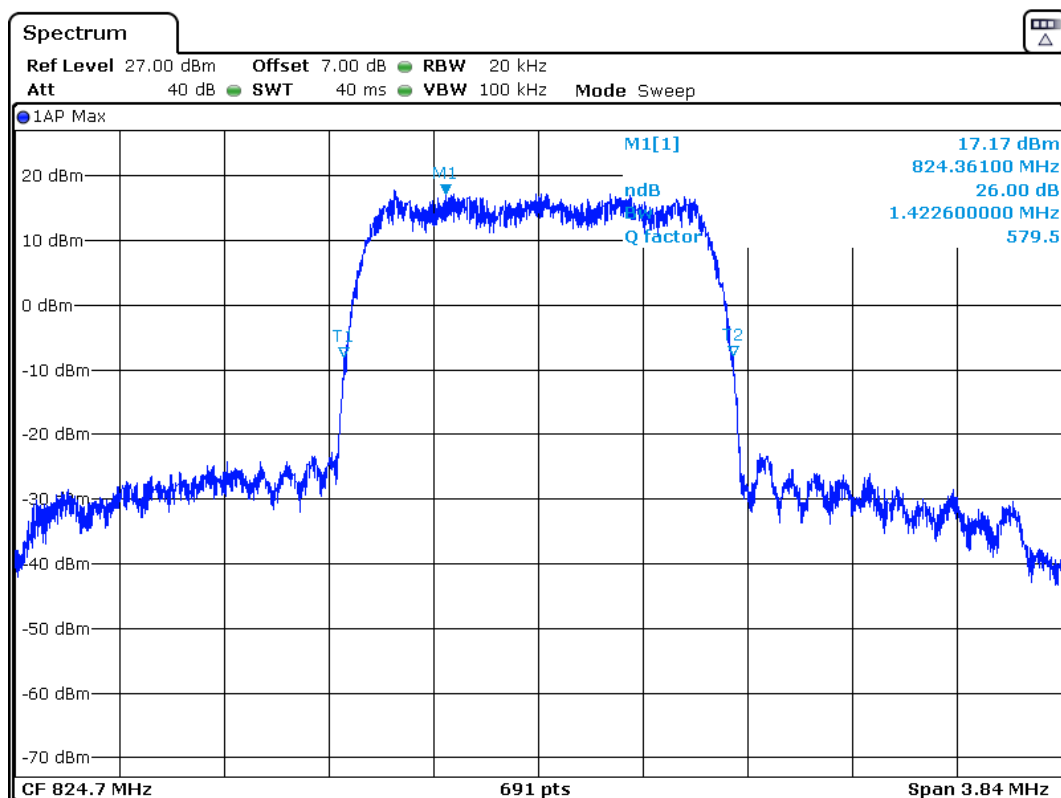
#### **CDMA 800 (-26dBc BW)**

Channel	Occupied Bandwidth (-26dBc BW)( MHz)
1013	1.423
384	1.423
777	1.423

**ANALYZER SETTINGS: RBW=20 kHz, VBW=100 kHz**

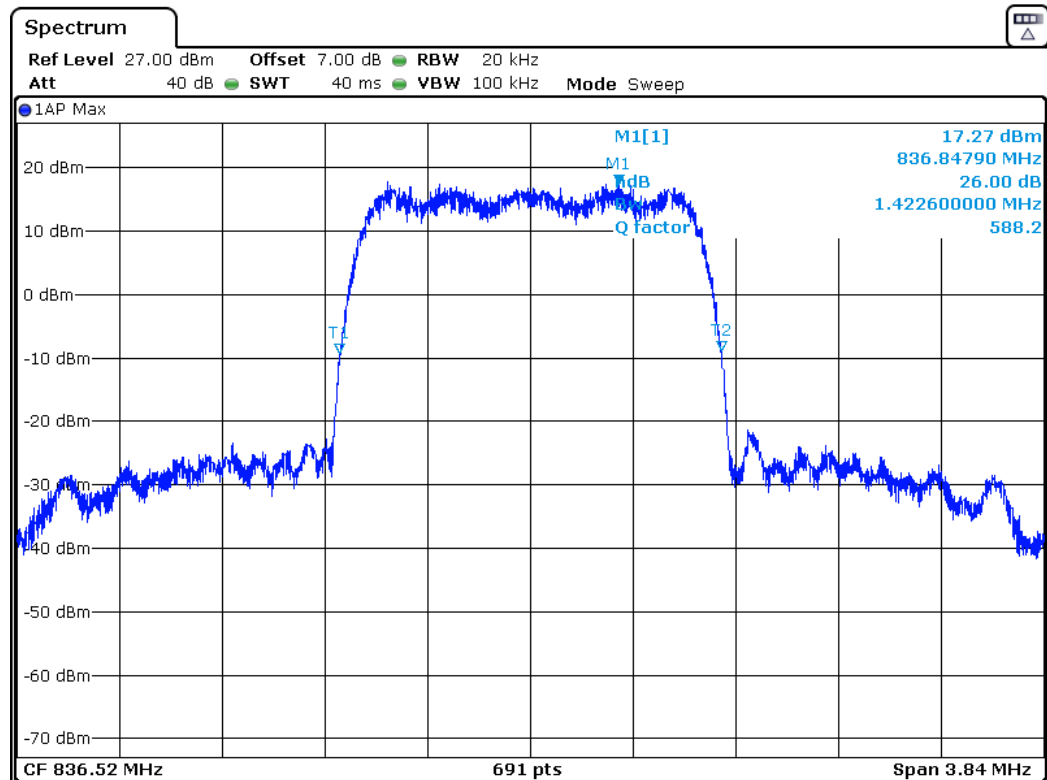
#### **CDMA 800**

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



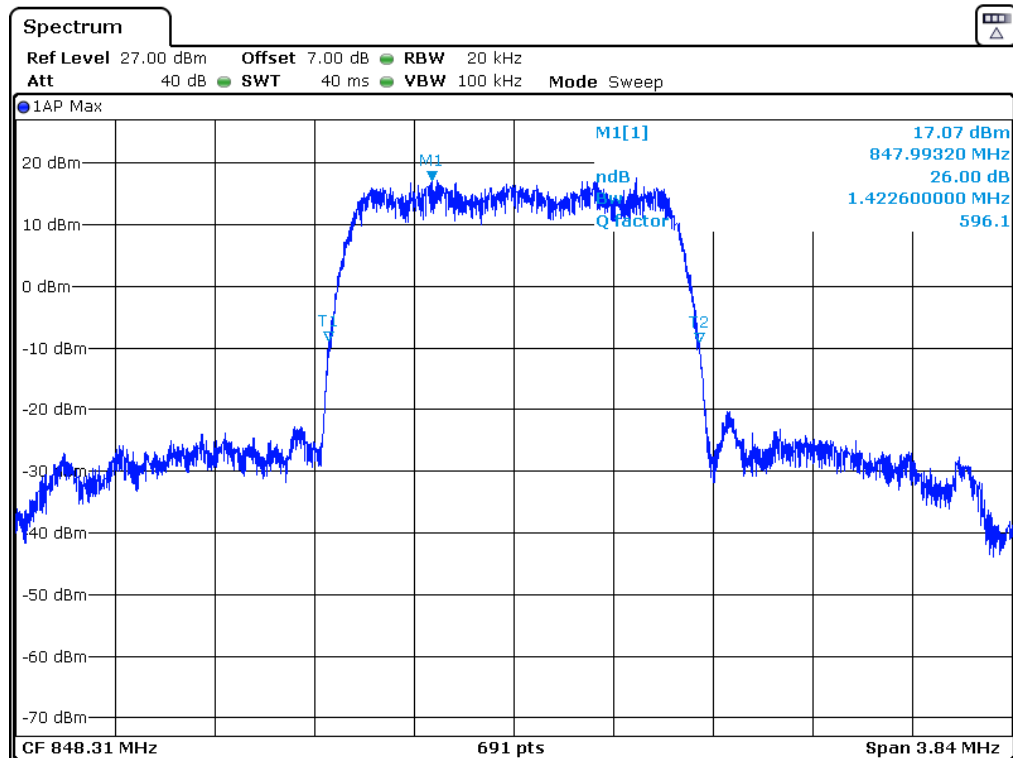
Date: 24.MAR.2016 09:09:40

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



Date: 24.MAR.2016 09:04:32

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



Date: 24.MAR.2016 09:10:56

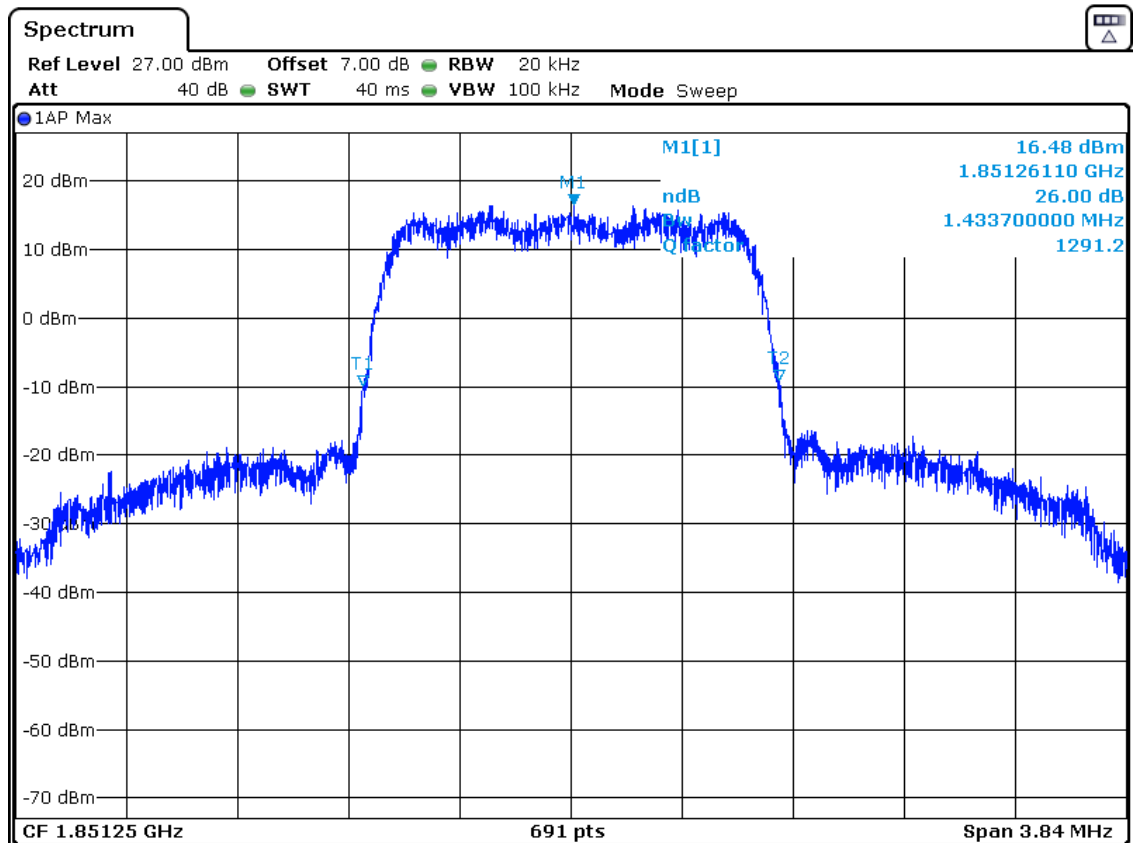
### CDMA 1900 (-26dBc)

Channel	Occupied Bandwidth (-26dBc BW)( MHz)
25	1.434
600	1.423
1175	1.423

**ANALYZER SETTINGS: RBW=20 kHz, VBW=100 kHz**

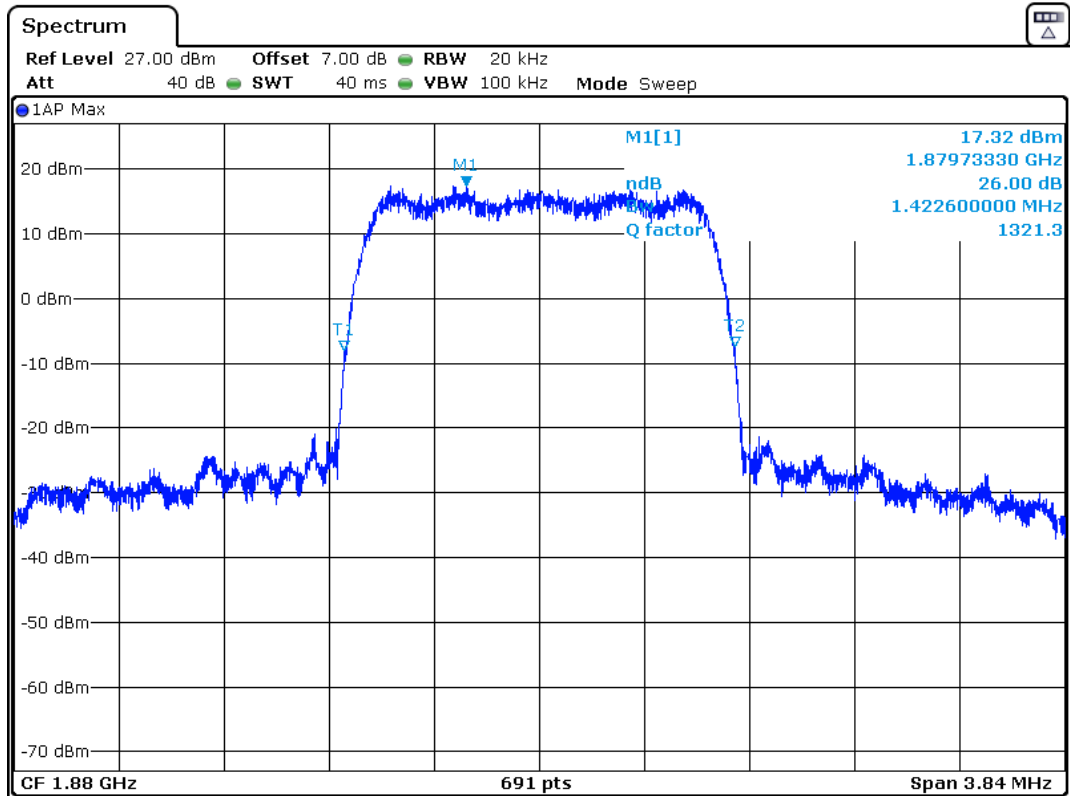
### CDMA 1900

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



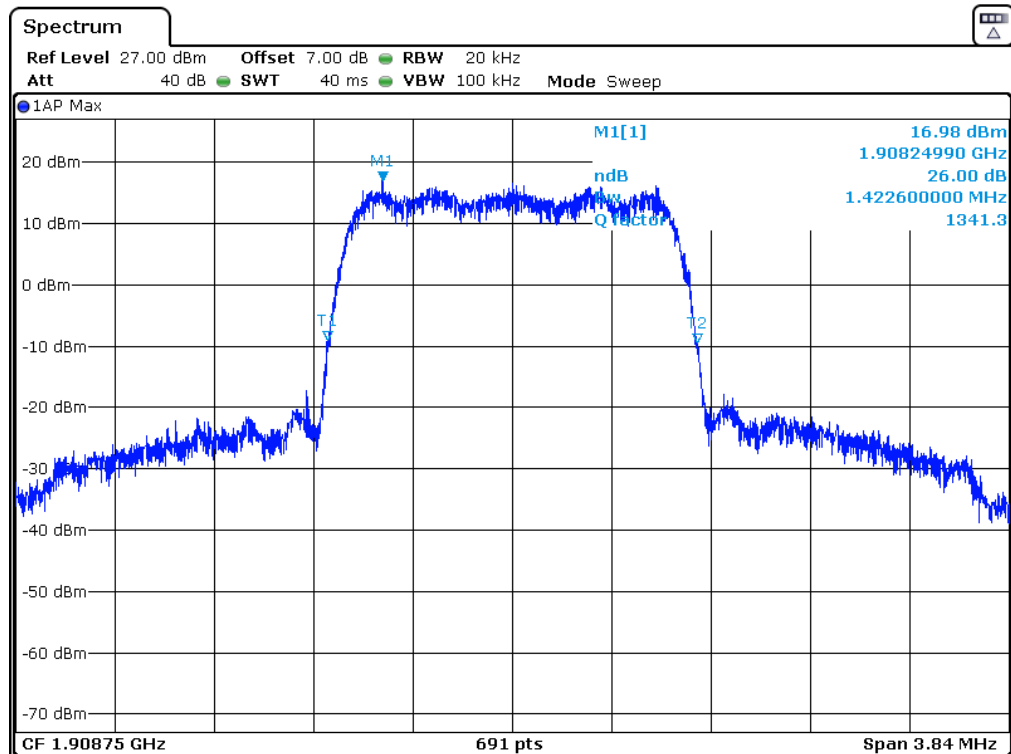
Date: 24.MAR.2016 09:14:14

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



Date: 24.MAR.2016 04:17:21

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

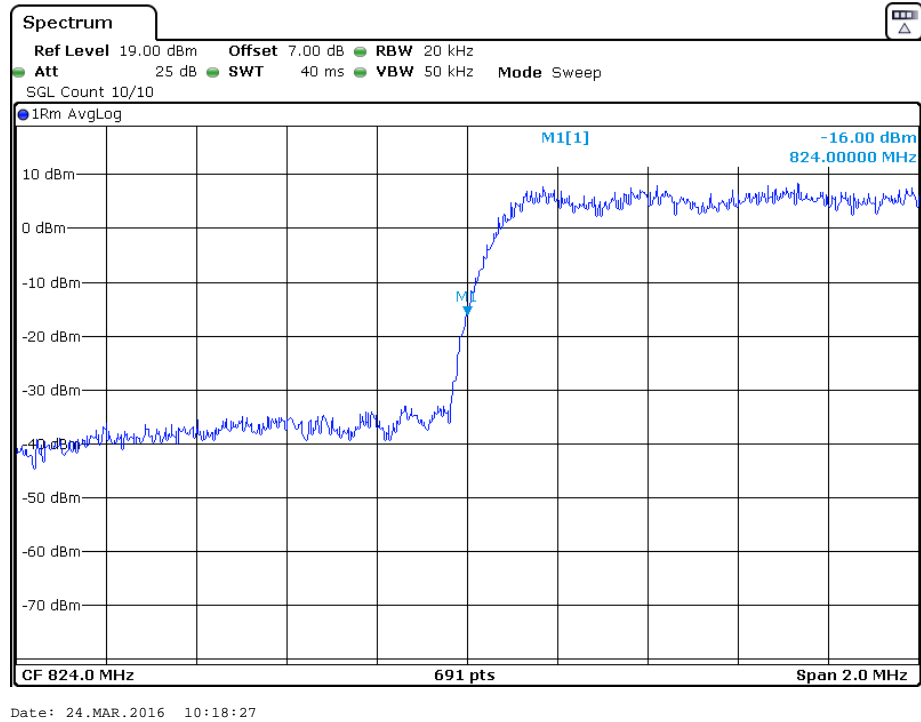


Date: 24.MAR.2016 09:15:30

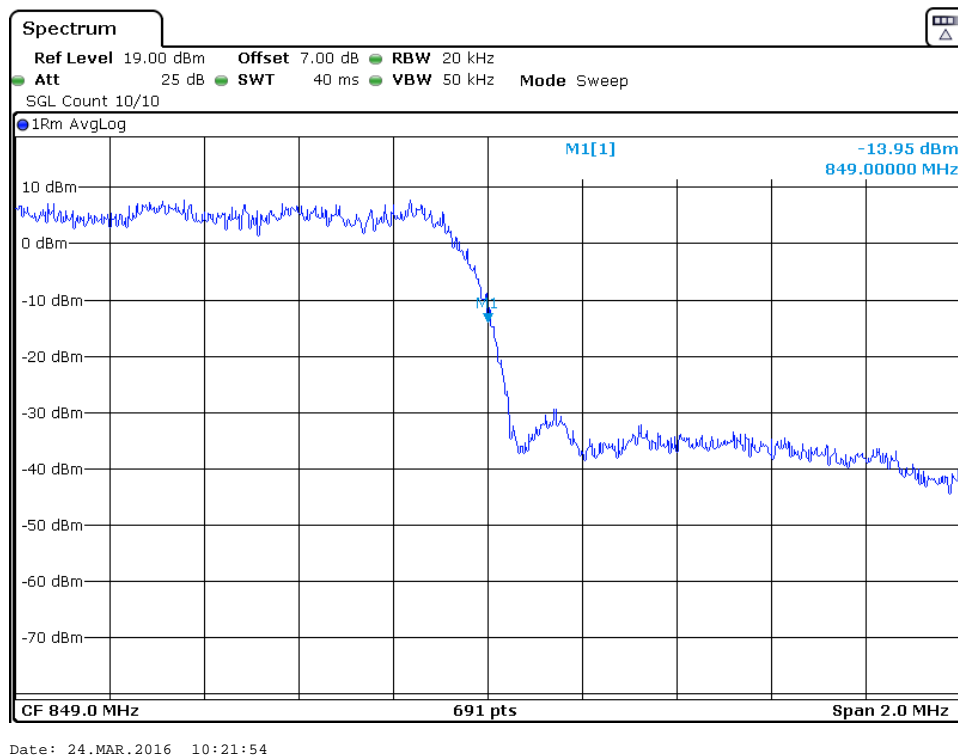
## A.5 BAND EDGE COMPLIANCE (\$22.917(b)/\$24.238(b))

### CDMA 800

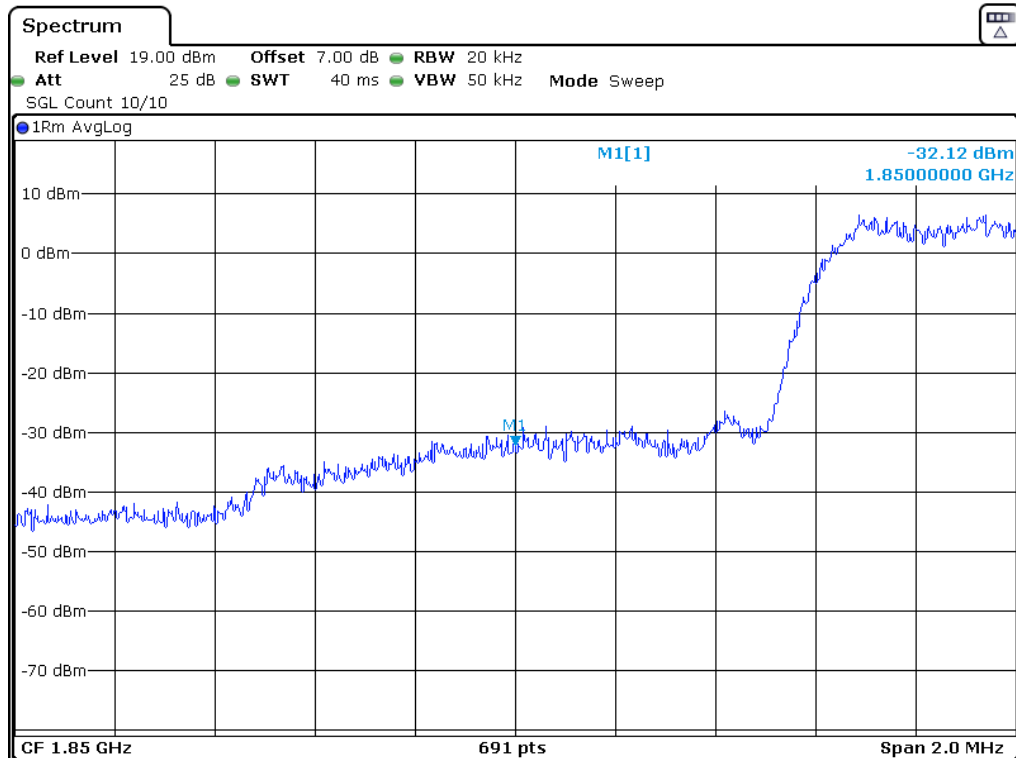
#### BAND EDGE BLOCK-Channel 1013



#### BAND EDGE BLOCK-Channel 777

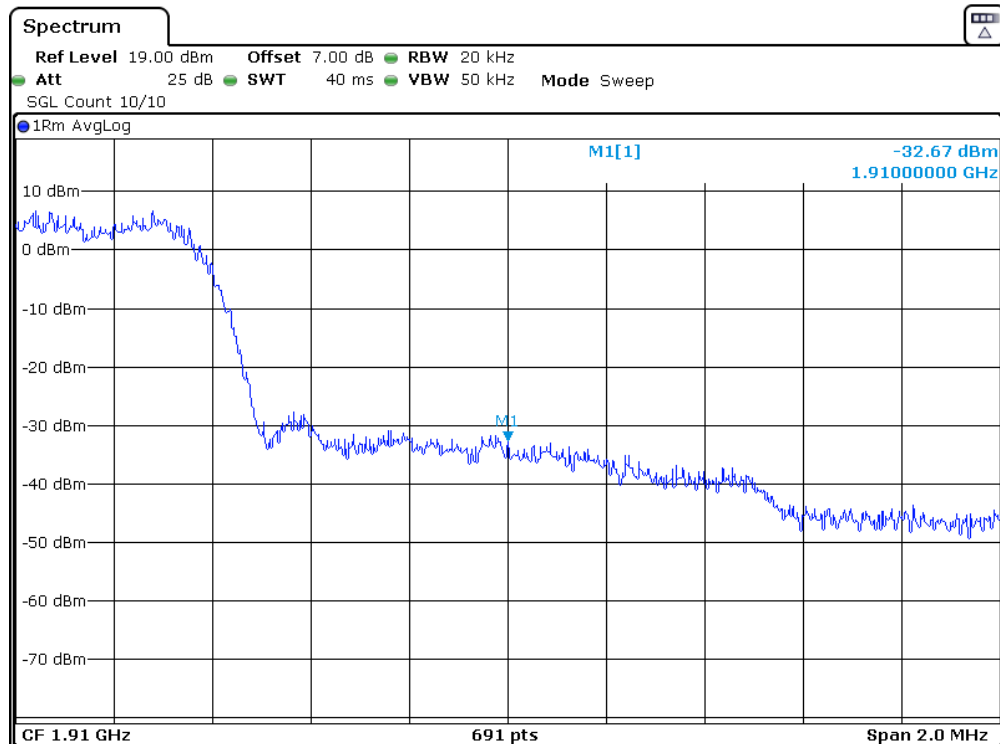


## CDMA 1900 BAND EDGE BLOCK-Channel 25



Date: 24.MAR.2016 10:13:39

## BAND EDGE BLOCK-Channel 1175



Date: 24.MAR.2016 10:15:03



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

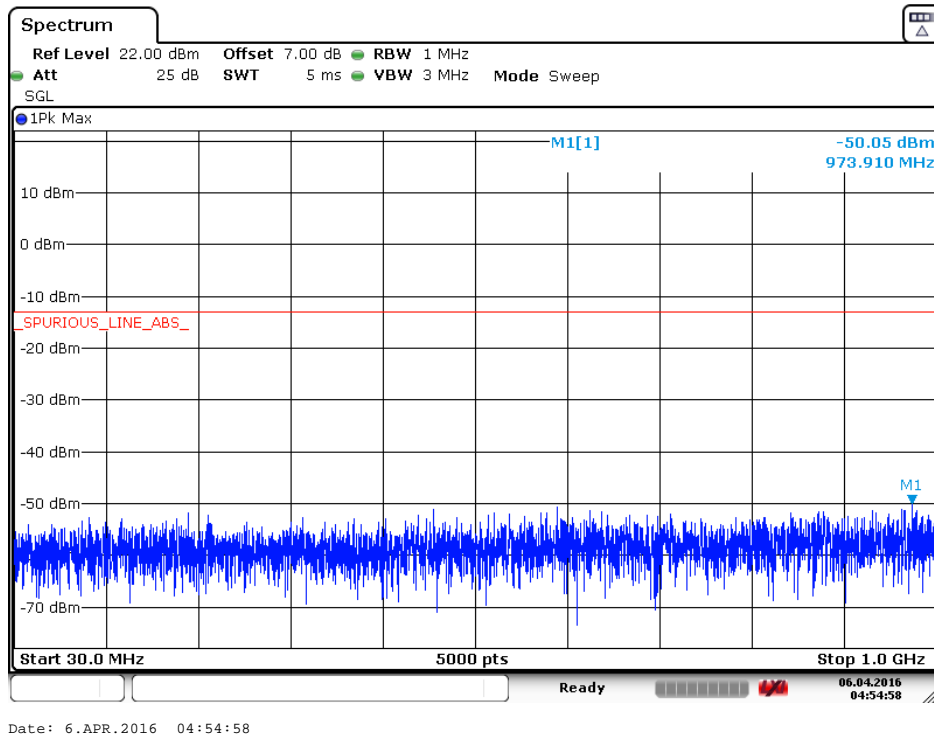
(a) On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least  $43+10\log(P)$  dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

### A. 6.3 Measurement result

#### CDMA 1900

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

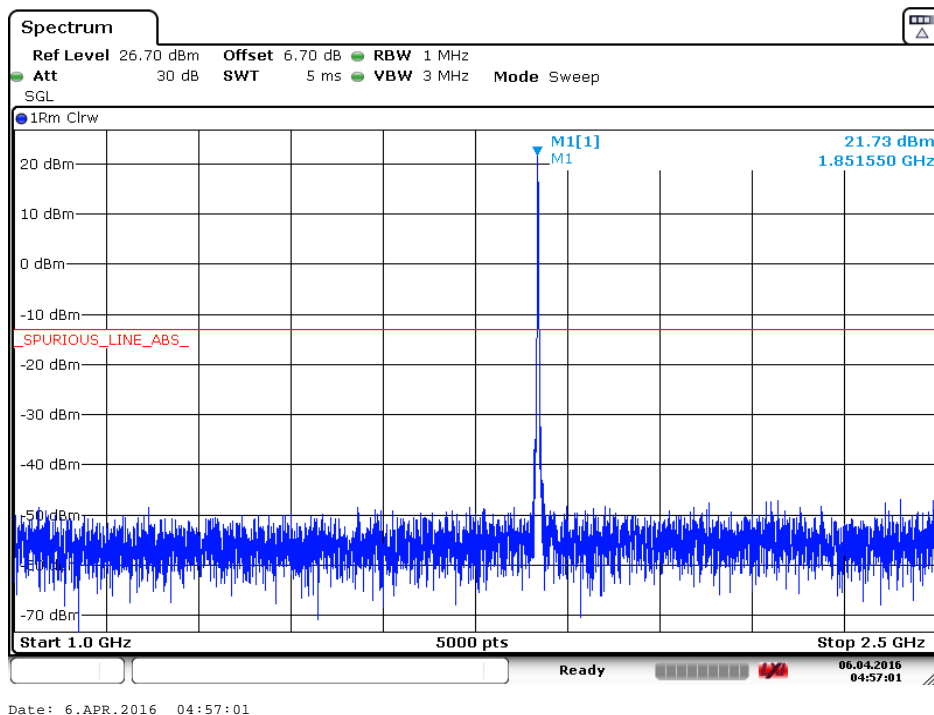
Spurious emission limit –13dBm.



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

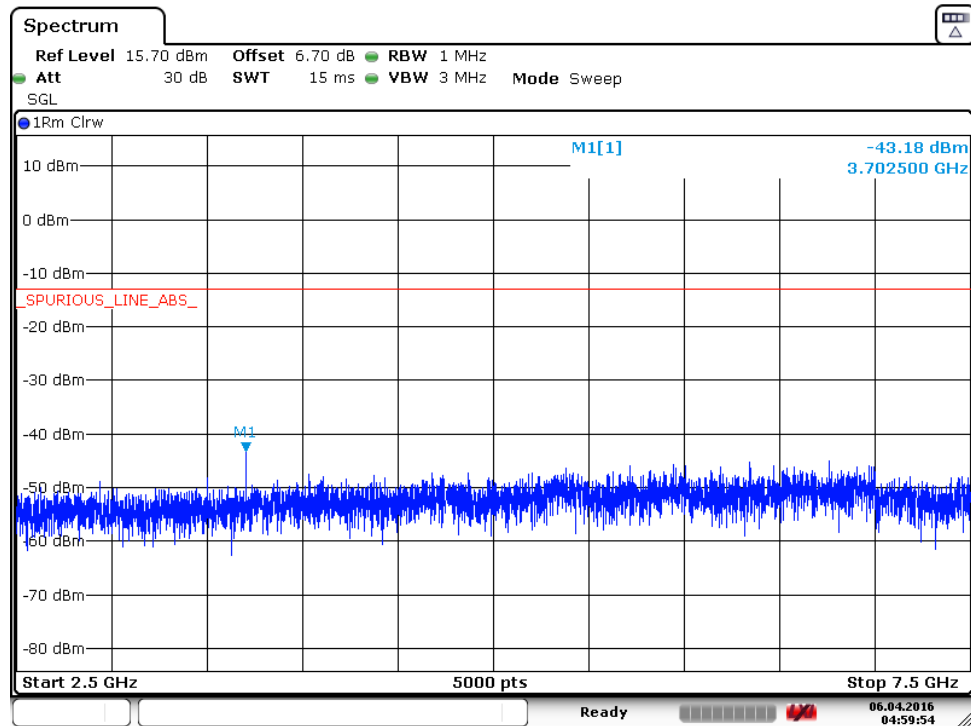
Spurious emission limit –13dBm.

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



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

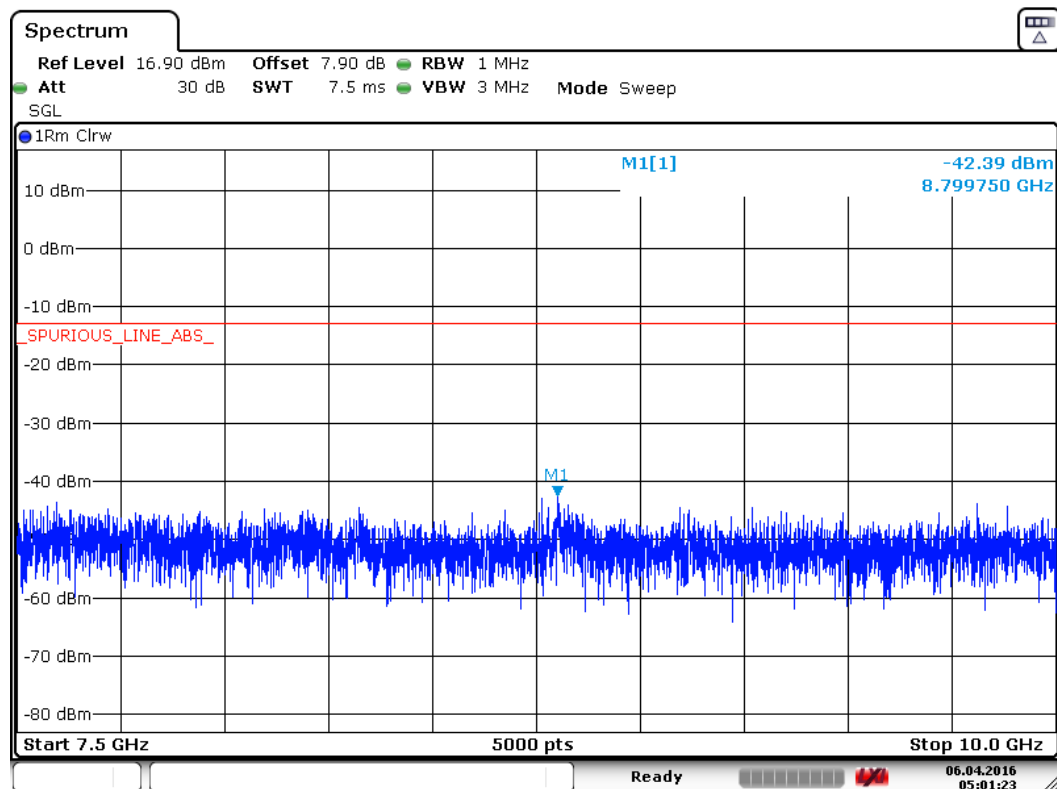
Spurious emission limit –13dBm.



Date: 6.APR.2016 04:59:54

### A.6.3.4 Channel 25: 7.5GHz –10GHz

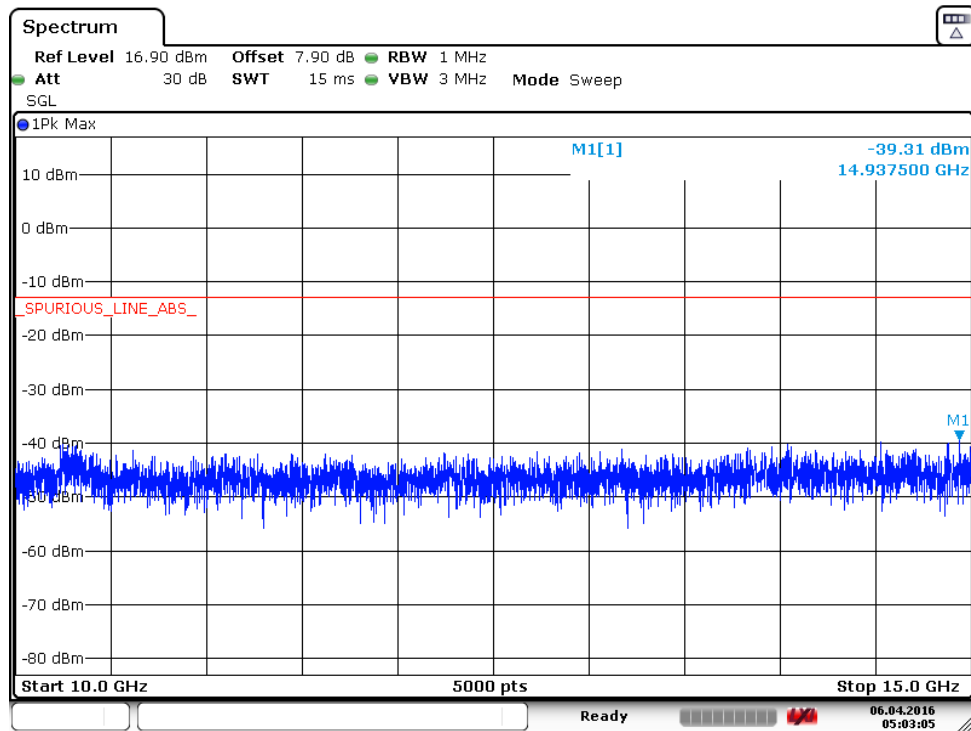
Spurious emission limit –13dBm.



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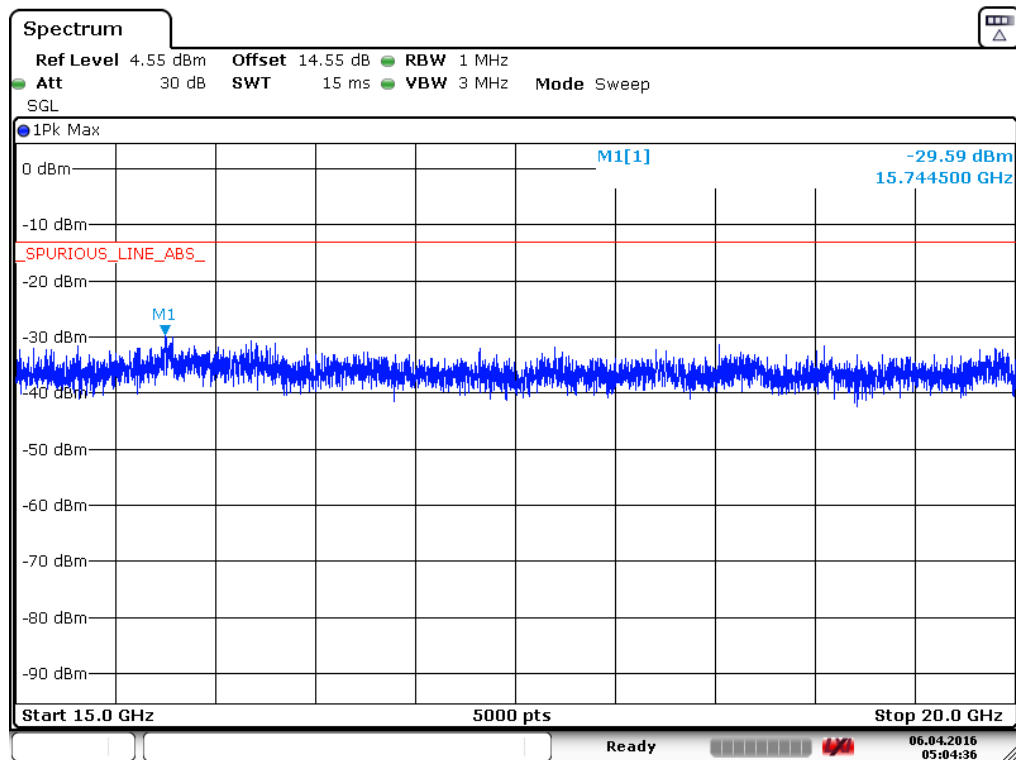
### A.6.3.5 Channel 25: 10GHz –15GHz

Spurious emission limit –13dBm.



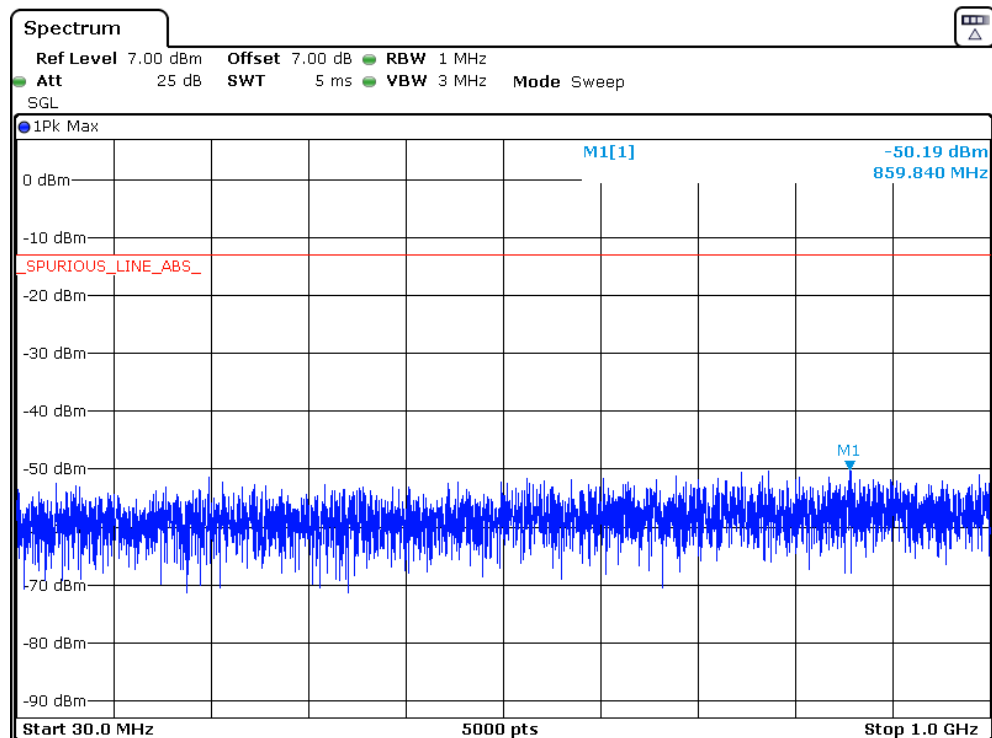
### A.6.3.6 Channel 25: 15GHz –20GHz

Spurious emission limit –13dBm.



### A. 6.3.7 Channel 600: 30MHz –1GHz

Spurious emission limit –13dBm.

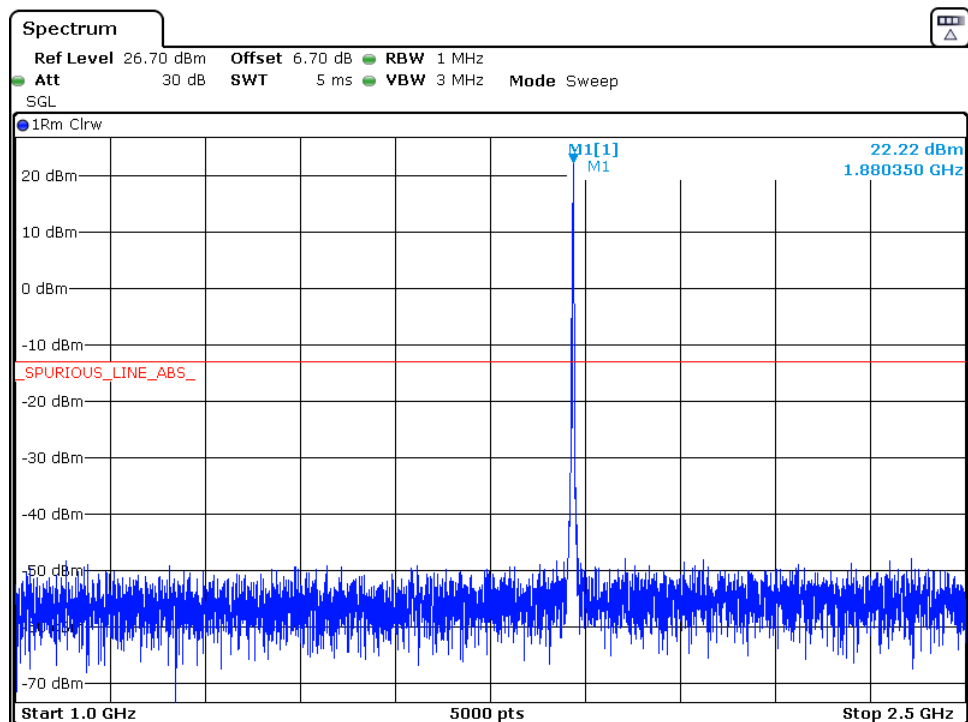


Date: 24.MAR.2016 04:22:21

### A.6.3.8 Channel 600: 1GHz –2.5GHz

Spurious emission limit –13dBm.

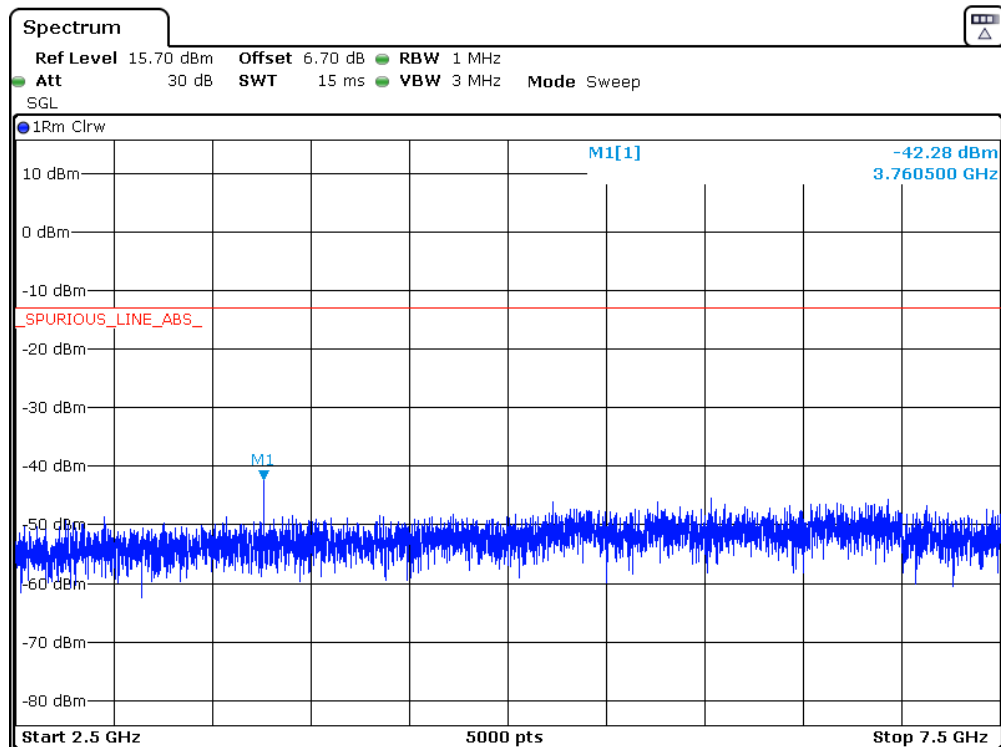
**NOTE:** peak above the limit line is the carrier frequency.



Date: 24.MAR.2016 04:24:09

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

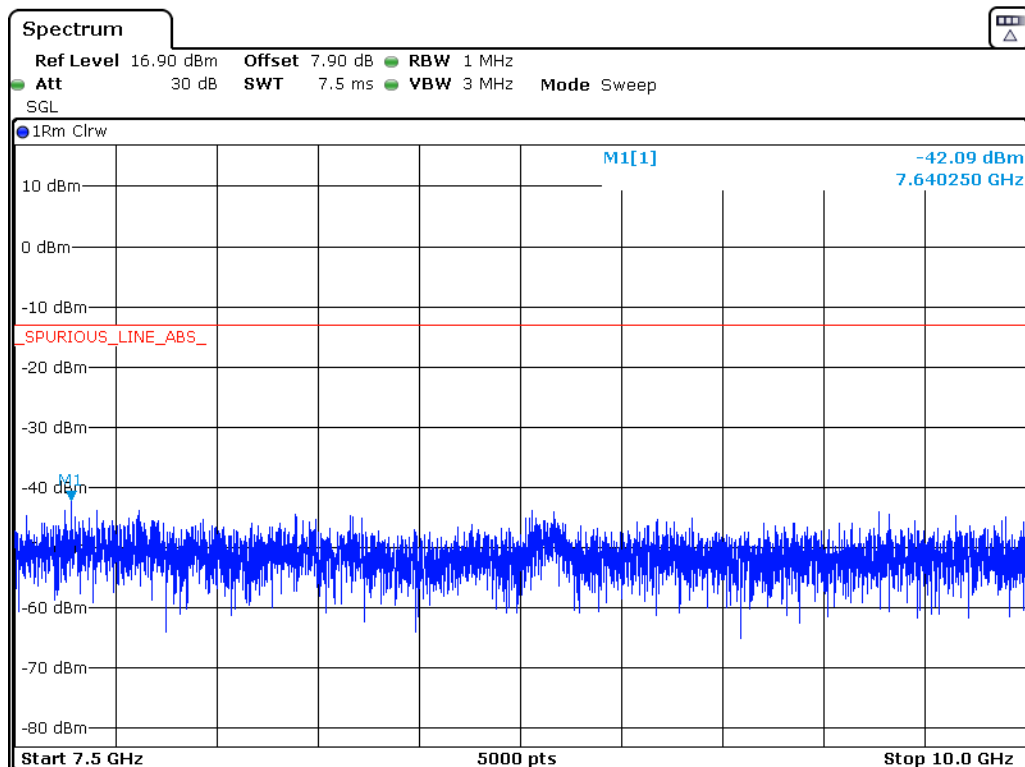
Spurious emission limit –13dBm.



Date: 24.MAR.2016 08:34:33

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

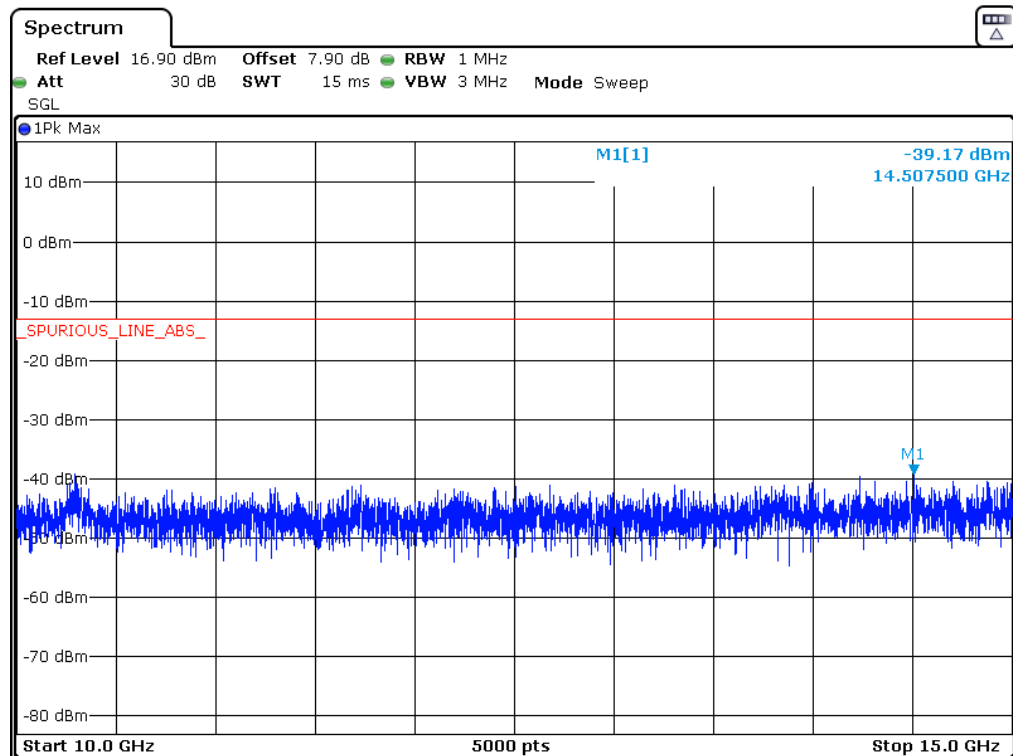
Spurious emission limit –13dBm.



Date: 24.MAR.2016 08:35:16

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

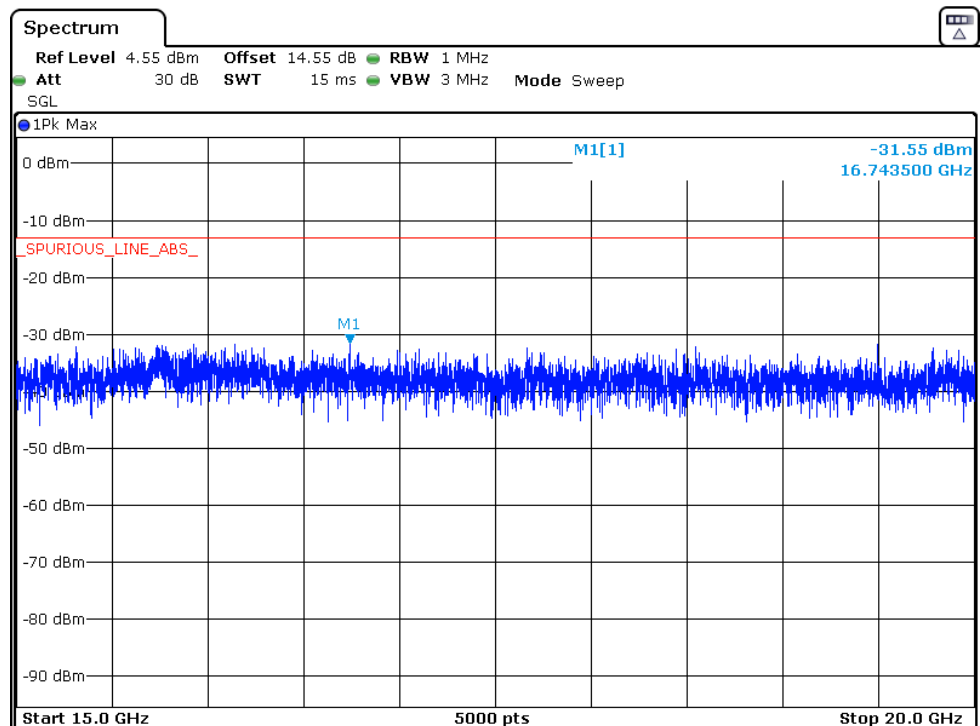
Spurious emission limit –13dBm.



Date: 24.MAR.2016 08:36:09

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

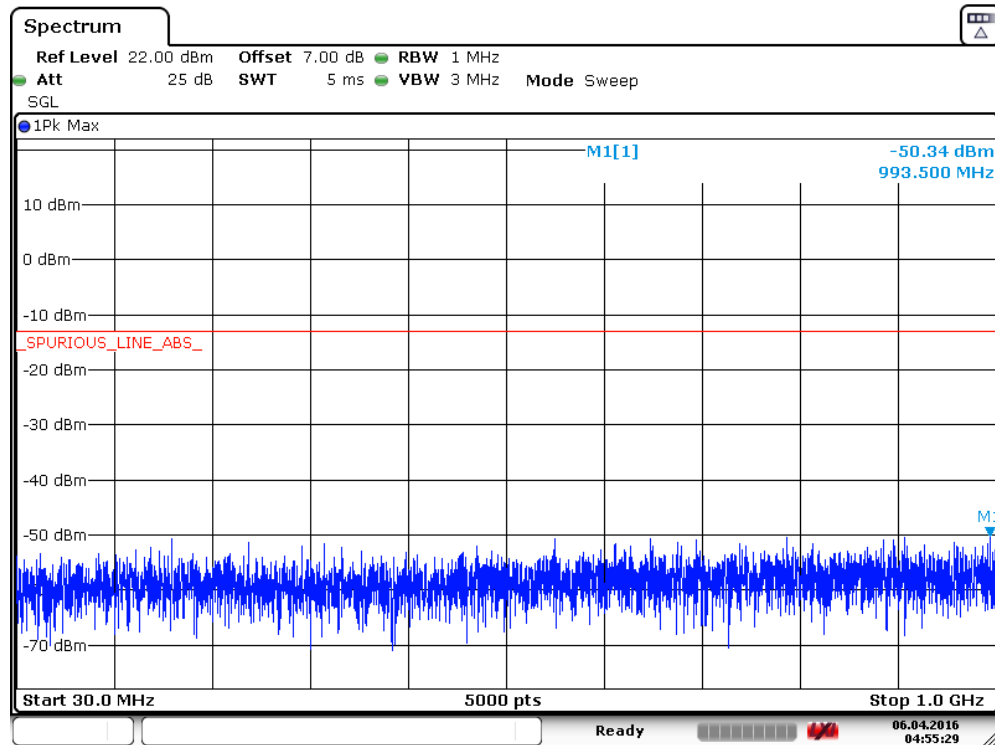
Spurious emission limit –13dBm.



Date: 24.MAR.2016 08:37:01

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

Spurious emission limit –13dBm.

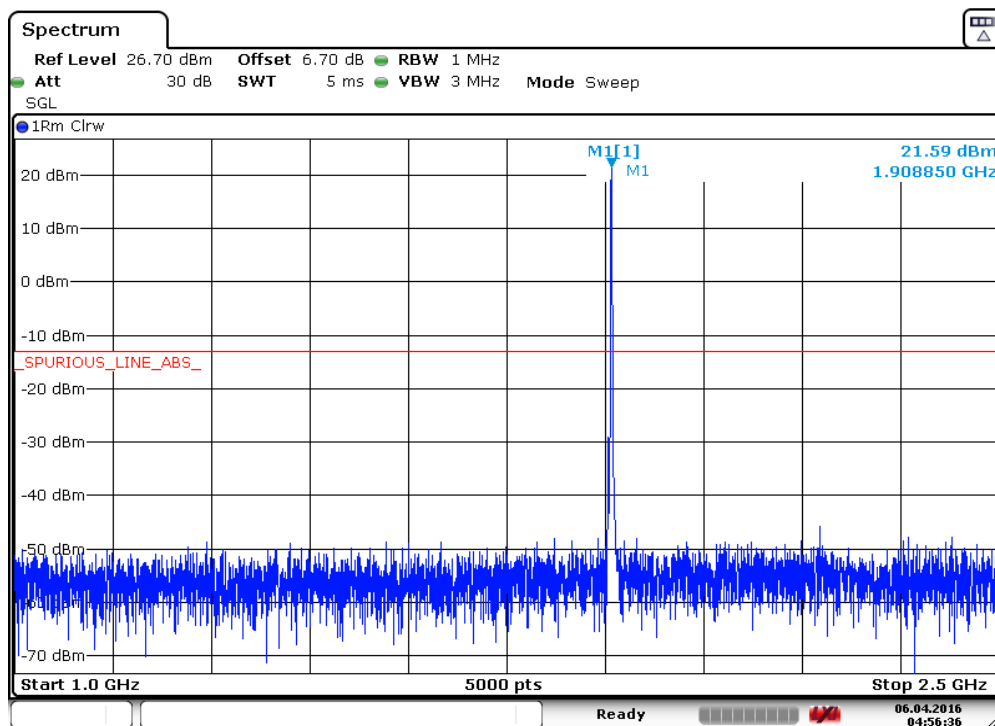


Date: 6.APR.2016 04:55:29

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

Spurious emission limit –13dBm.

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

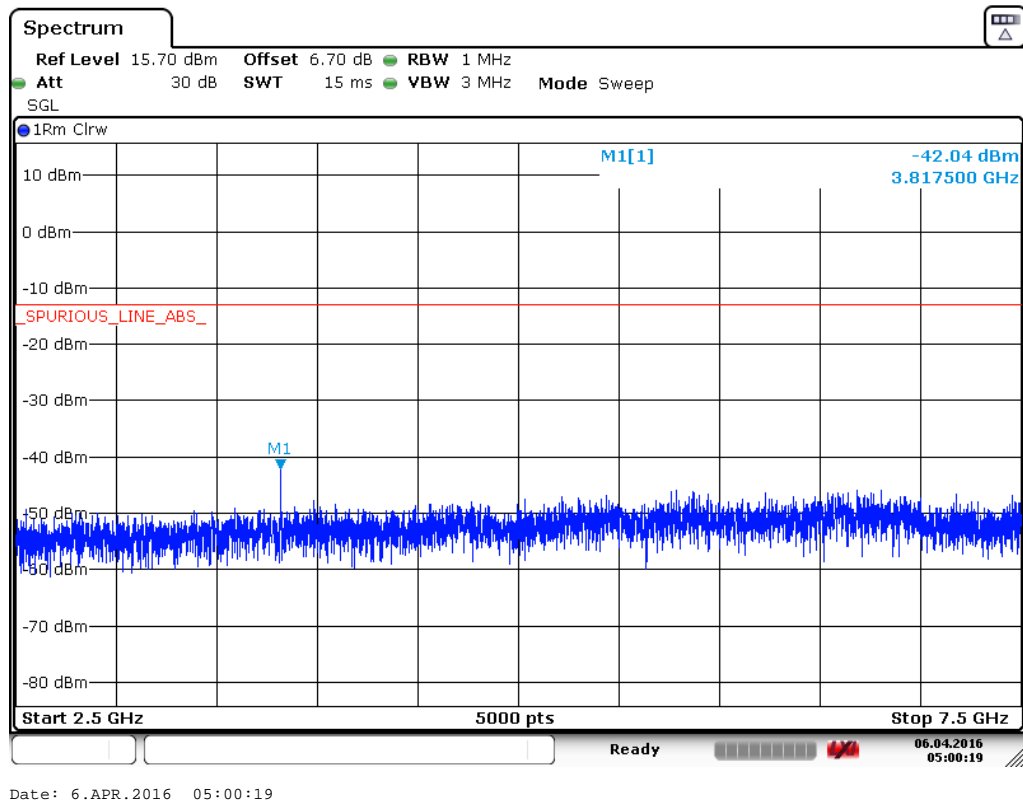


Date: 6.APR.2016 04:56:35



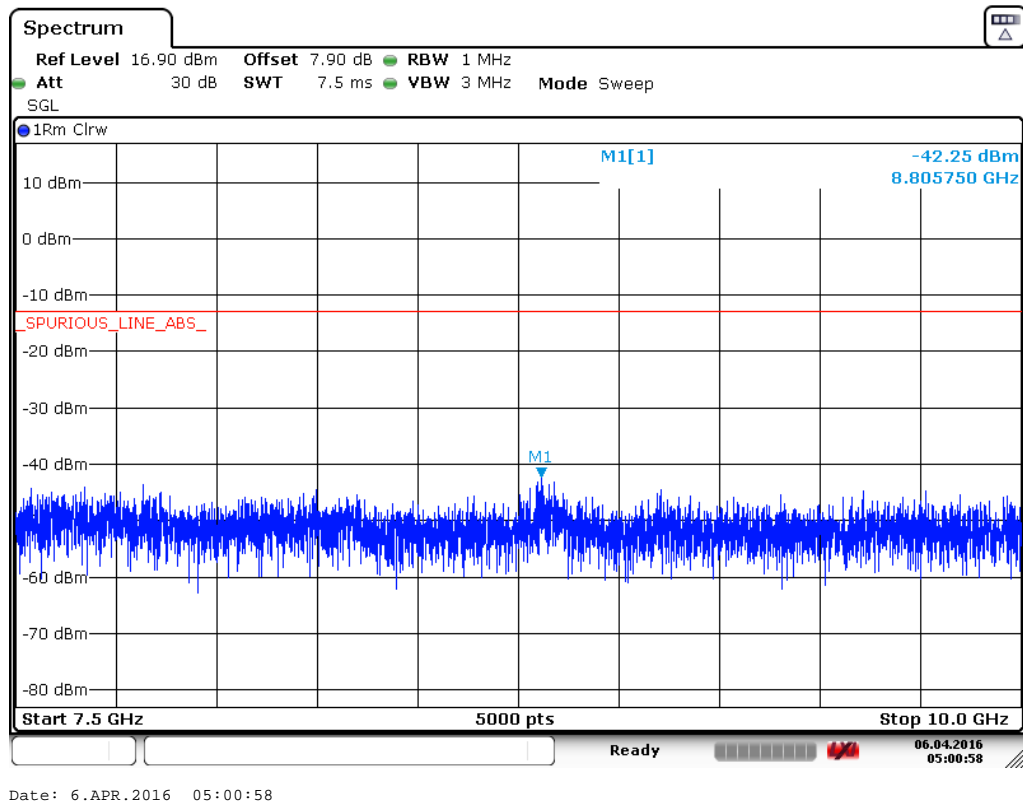
### A.6.3.15 Channel 1175: 2.5GHz –7.5GHz

Spurious emission limit –13dBm.



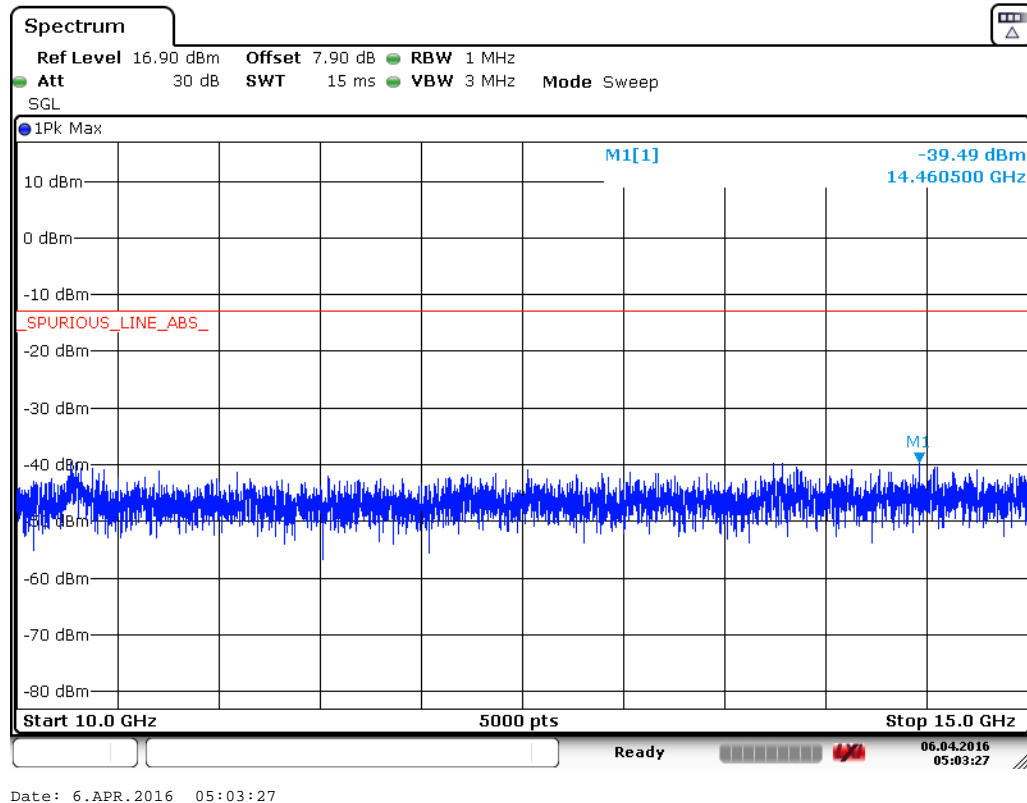
### A.6.3.16 Channel 1175: 7.5GHz –10GHz

Spurious emission limit –13dBm.



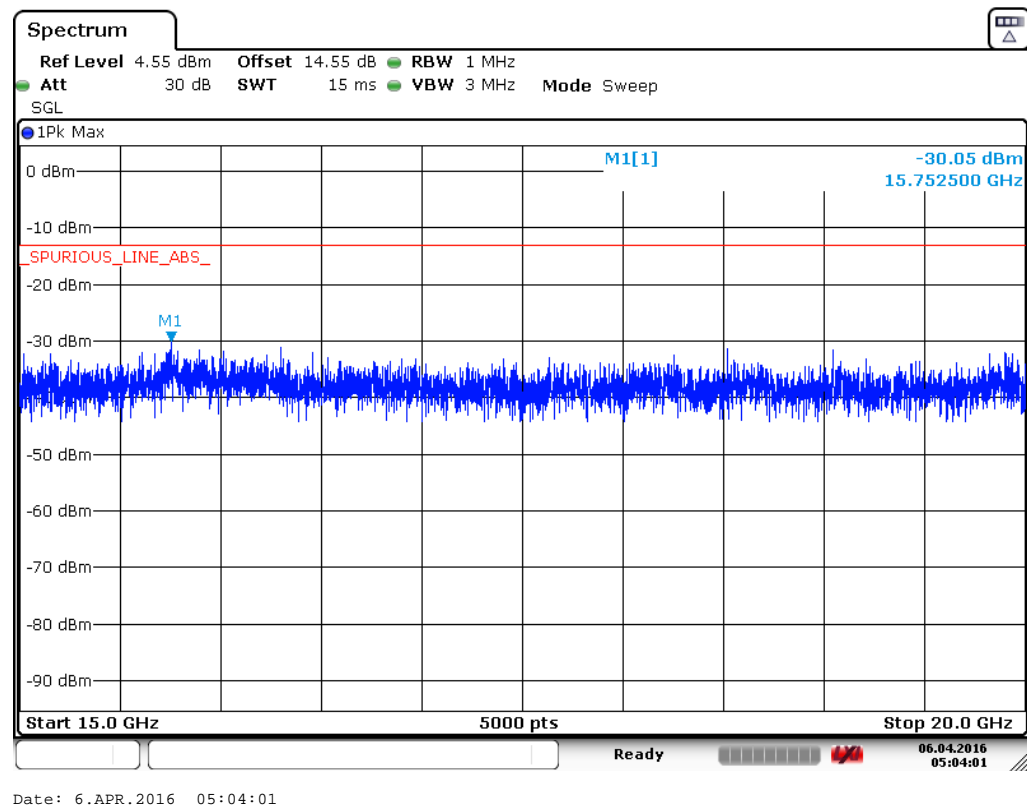
### A.6.3.17 Channel 1175: 10GHz –15GHz

Spurious emission limit –13dBm.



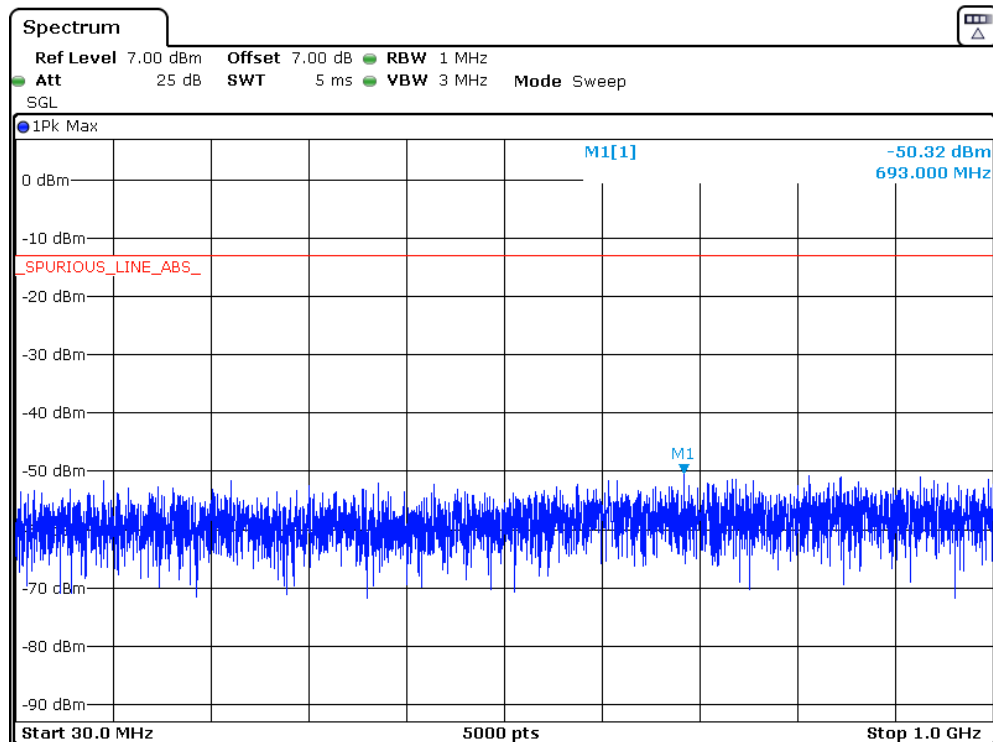
### A.6.3.18 Channel 1175: 15GHz –20GHz

Spurious emission limit –13dBm.



#### A. 6.3.19 Idle mode: 30MHz –1GHz

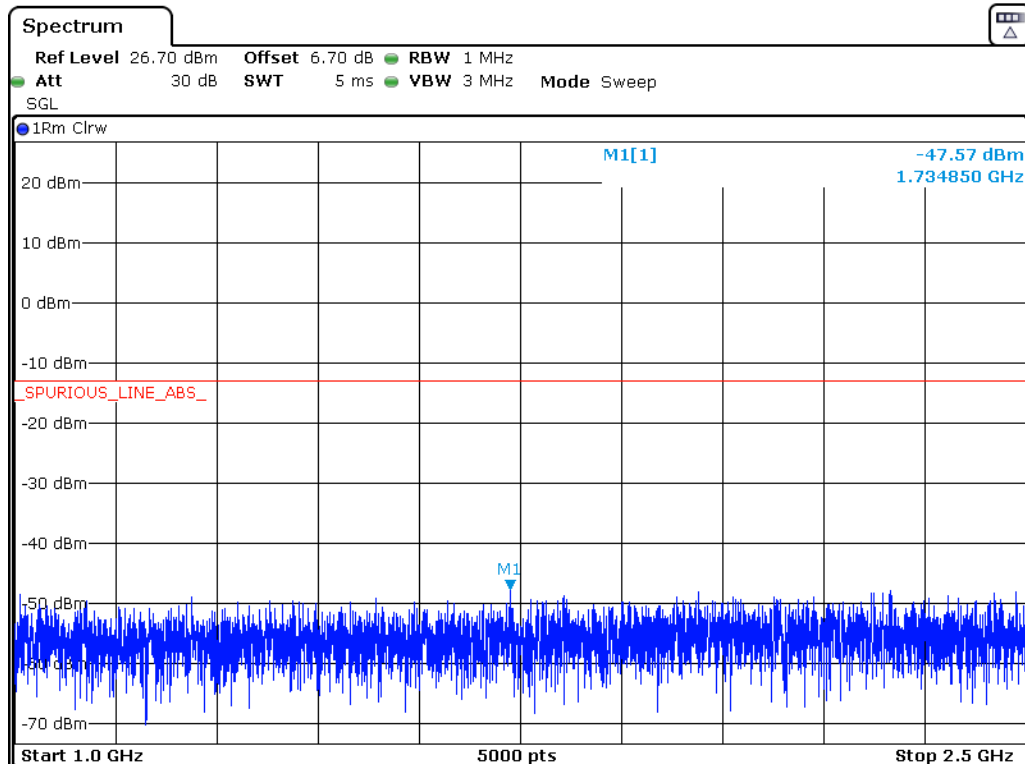
Spurious emission limit –13dBm.



Date: 24.MAR.2016 08:41:59

#### A.6.3.20 Idle mode: 1GHz –2.5GHz

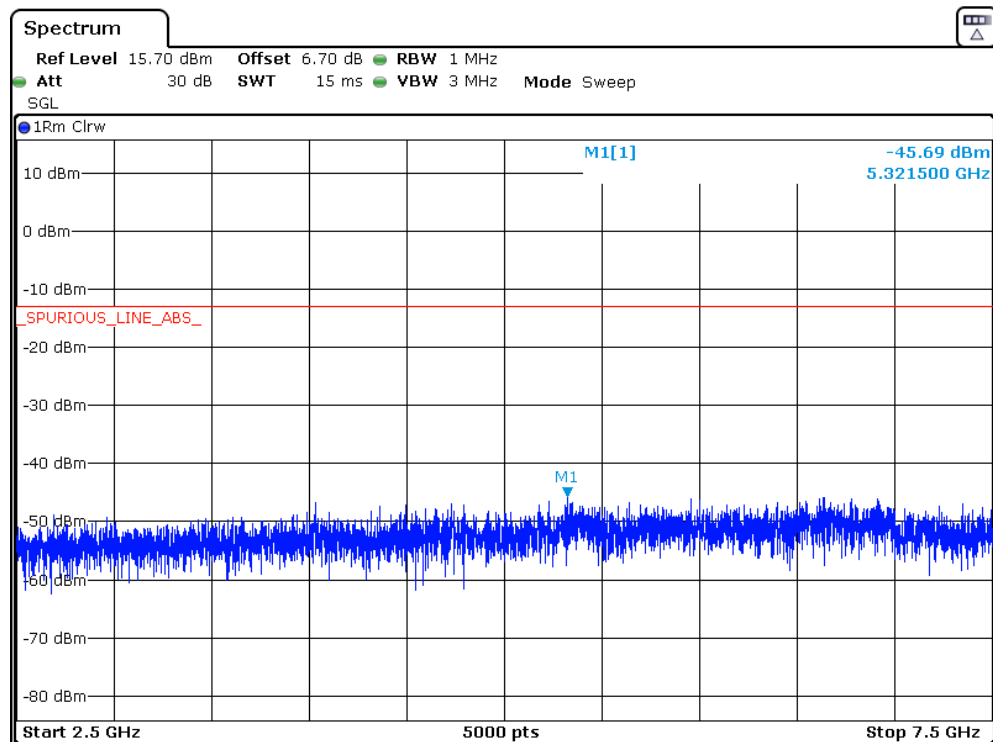
Spurious emission limit –13dBm.



Date: 24.MAR.2016 08:47:00

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

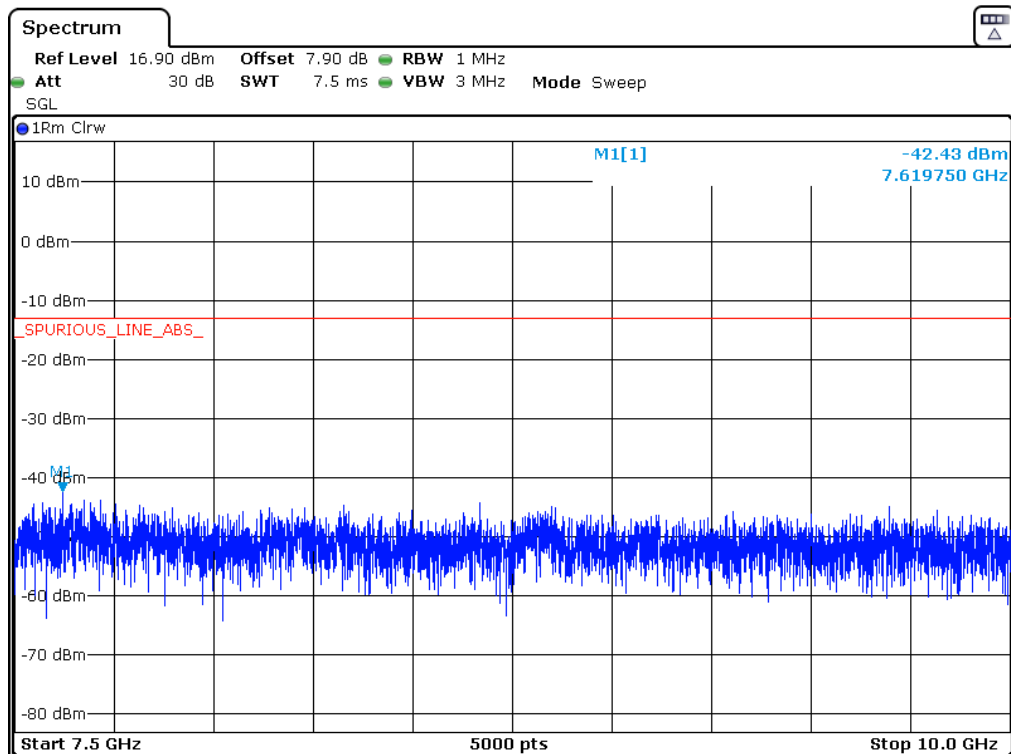
Spurious emission limit –13dBm.



Date: 24.MAR.2016 08:48:05

### A.6.3.22 Idle mode: 7.5GHz –10GHz

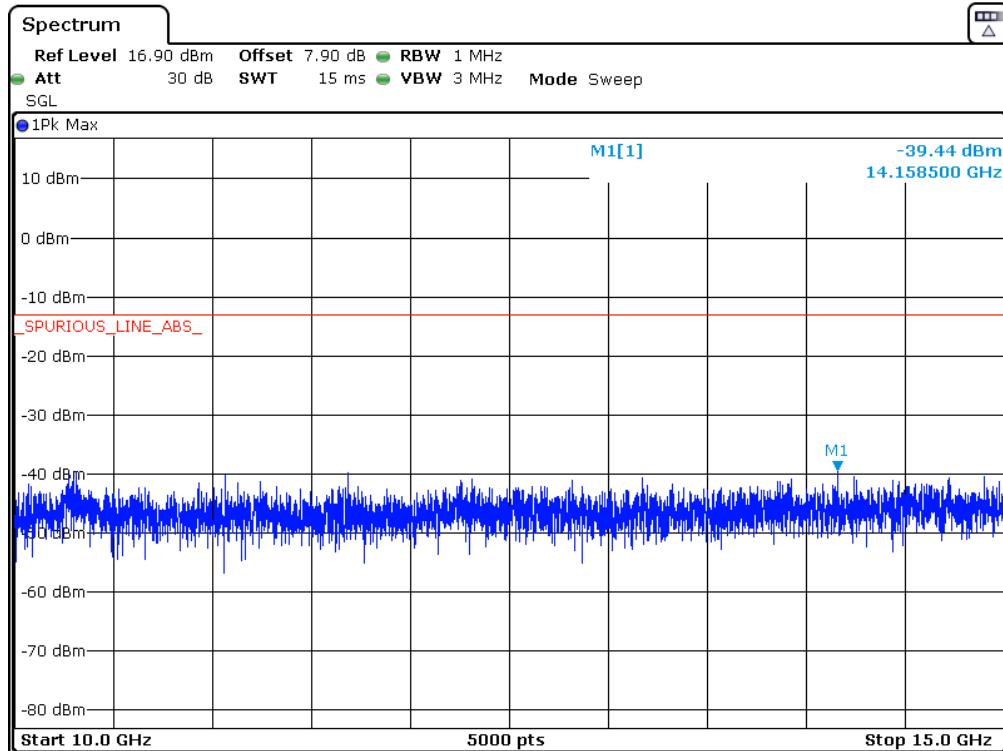
Spurious emission limit –13dBm.



Date: 24.MAR.2016 08:50:43

### A.6.3.23 Idle mode: 10GHz –15GHz

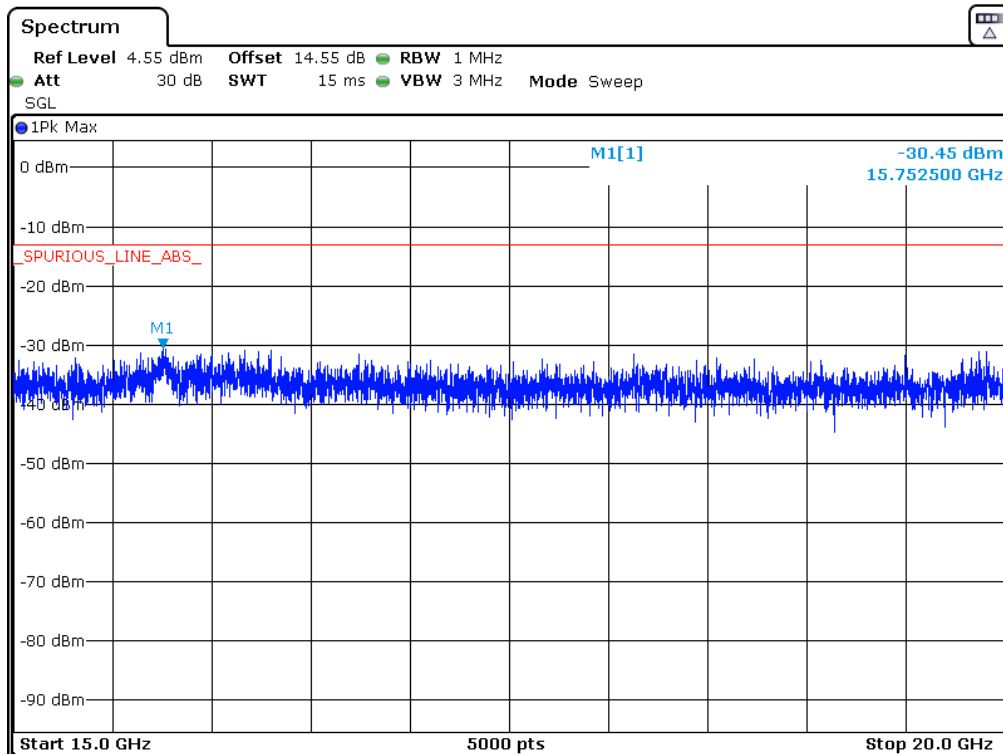
Spurious emission limit –13dBm.



Date: 24.MAR.2016 08:40:55

### A.6.3.24 Idle mode: 15GHz –20GHz

Spurious emission limit –13dBm.



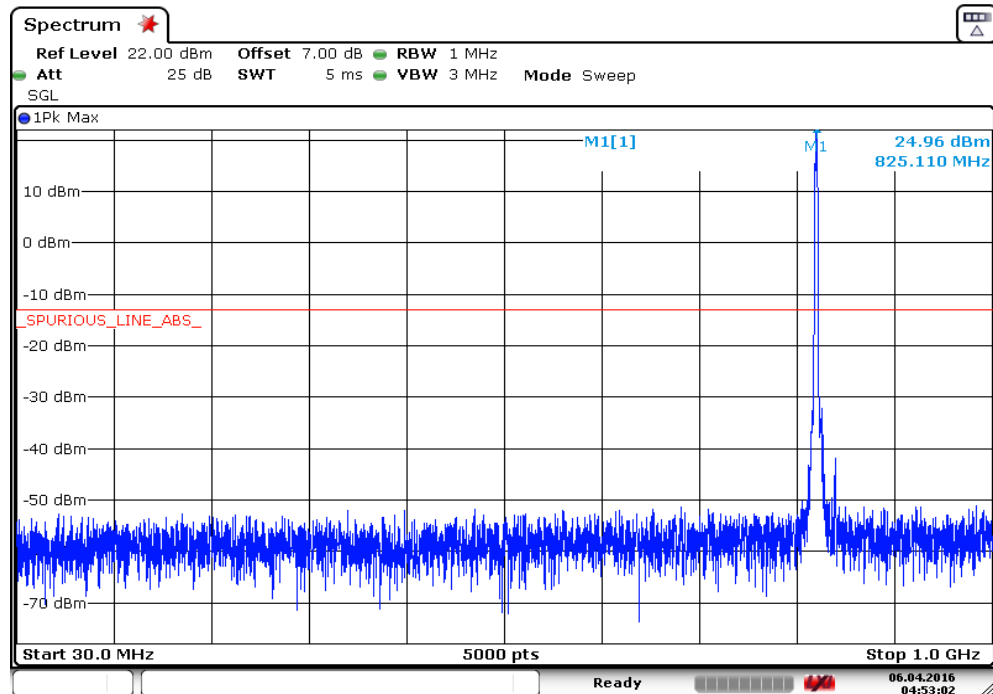
Date: 24.MAR.2016 08:39:36

## CDMA 800

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

Spurious emission limit –13dBm.

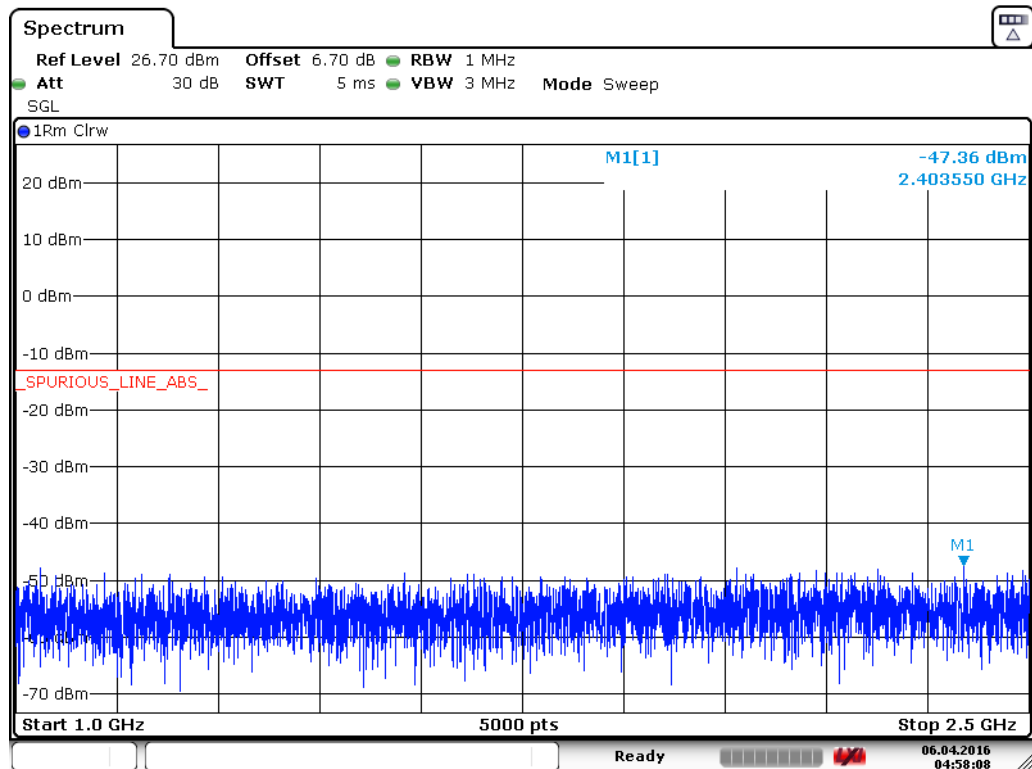
**NOTE: peak above the limit line is the carrier frequency.**



Date: 6.APR.2016 04:53:01

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

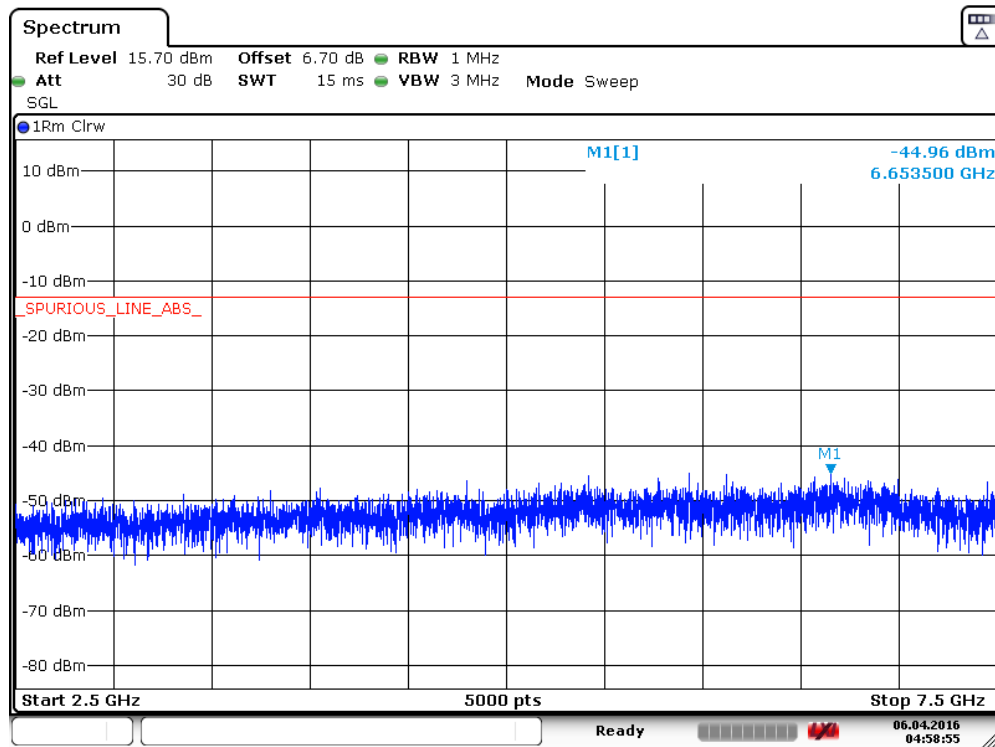
Spurious emission limit –13dBm.



Date: 6.APR.2016 04:58:08

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

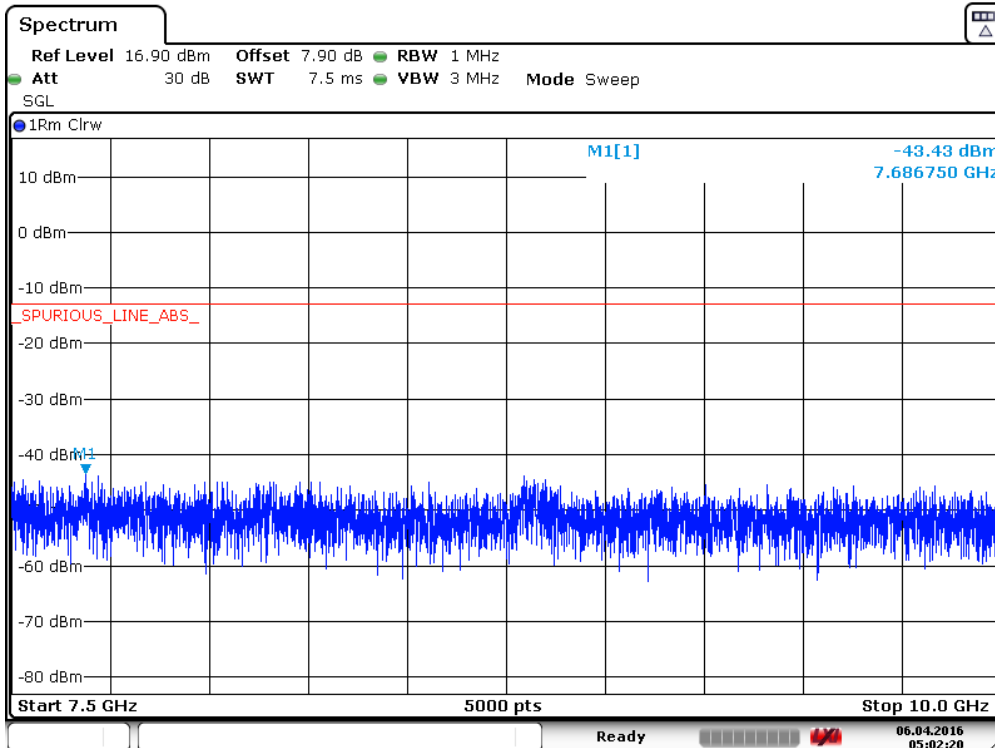
Spurious emission limit –13dBm.



Date: 6.APR.2016 04:58:55

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

Spurious emission limit –13dBm.

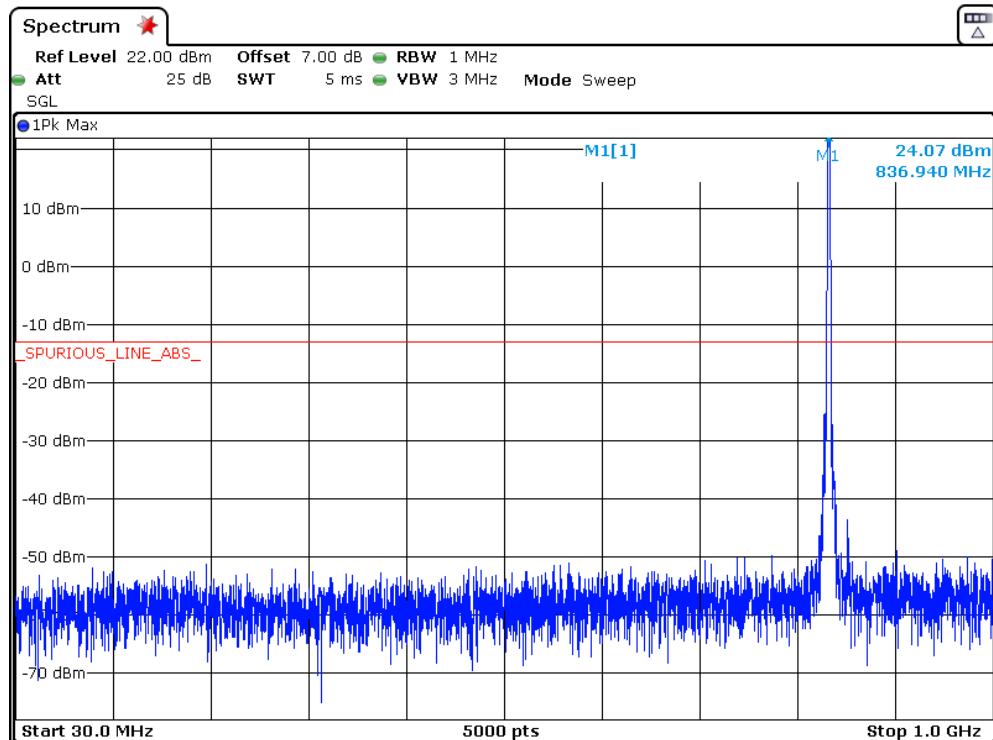


Date: 6.APR.2016 05:02:20

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

Spurious emission limit –13dBm.

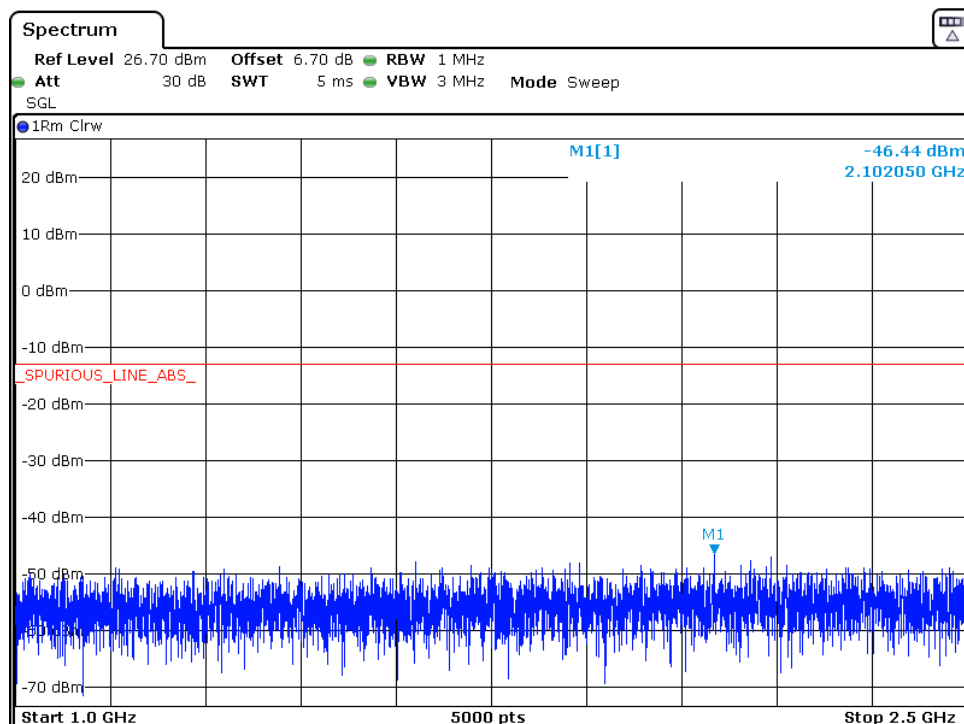
**NOTE:** peak above the limit line is the carrier frequency.



Date: 24.MAR.2016 08:59:15

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

Spurious emission limit –13dBm.

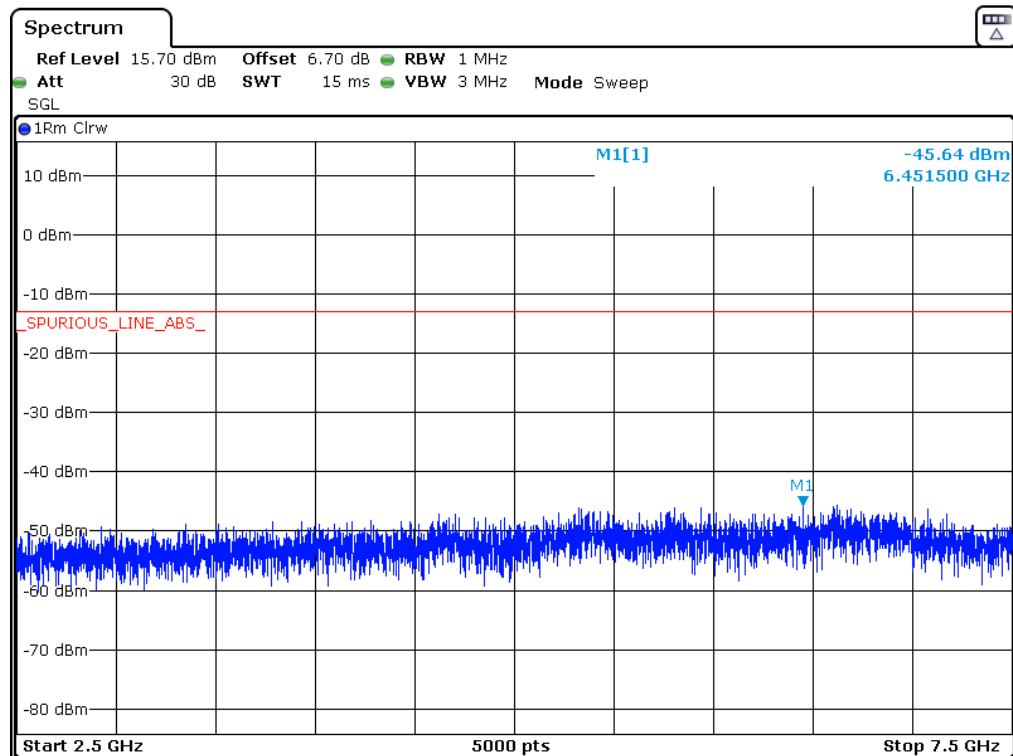


Date: 24.MAR.2016 08:57:49



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

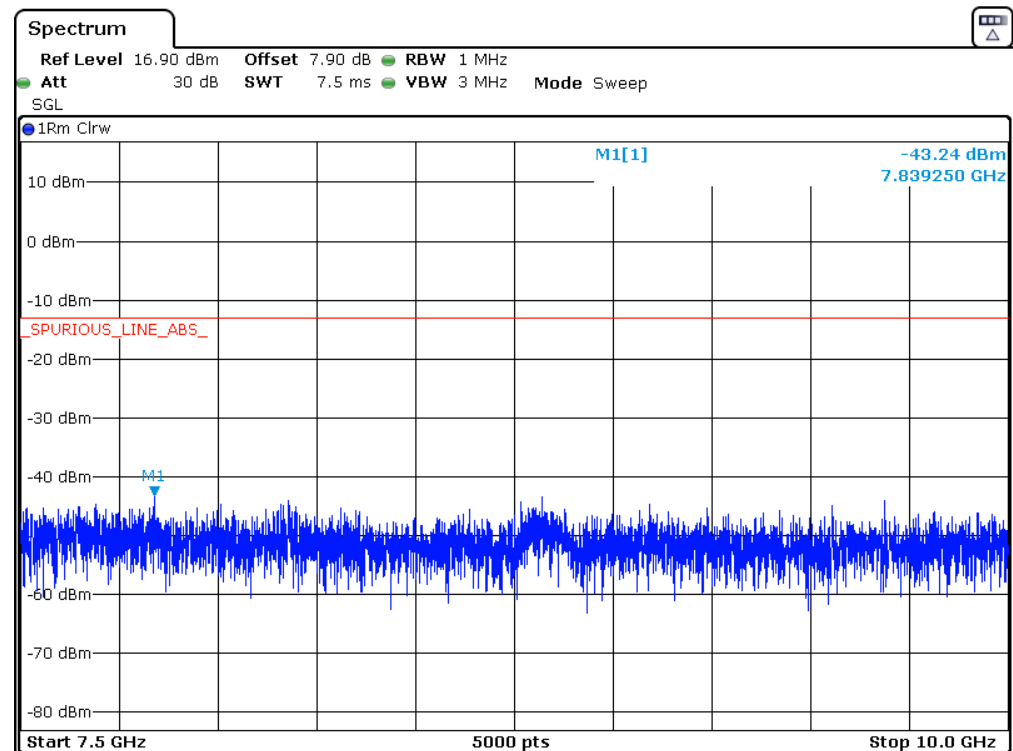
Spurious emission limit –13dBm.



Date: 24.MAR.2016 08:56:51

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

Spurious emission limit –13dBm.

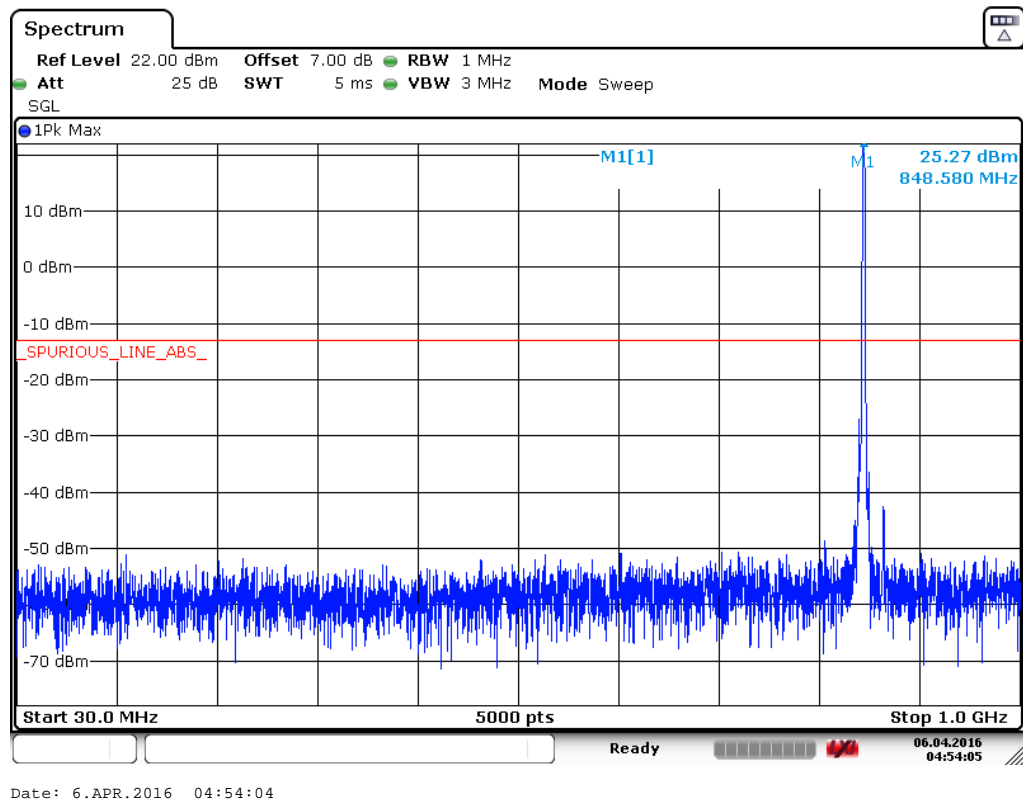


Date: 24.MAR.2016 08:54:40

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

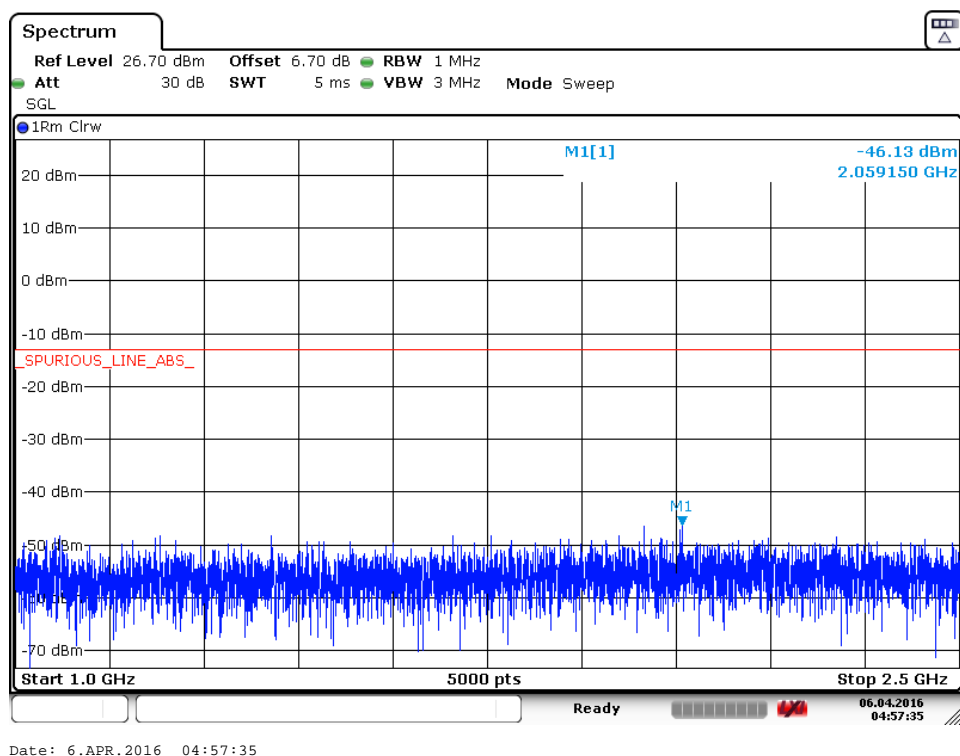
Spurious emission limit –13dBm.

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



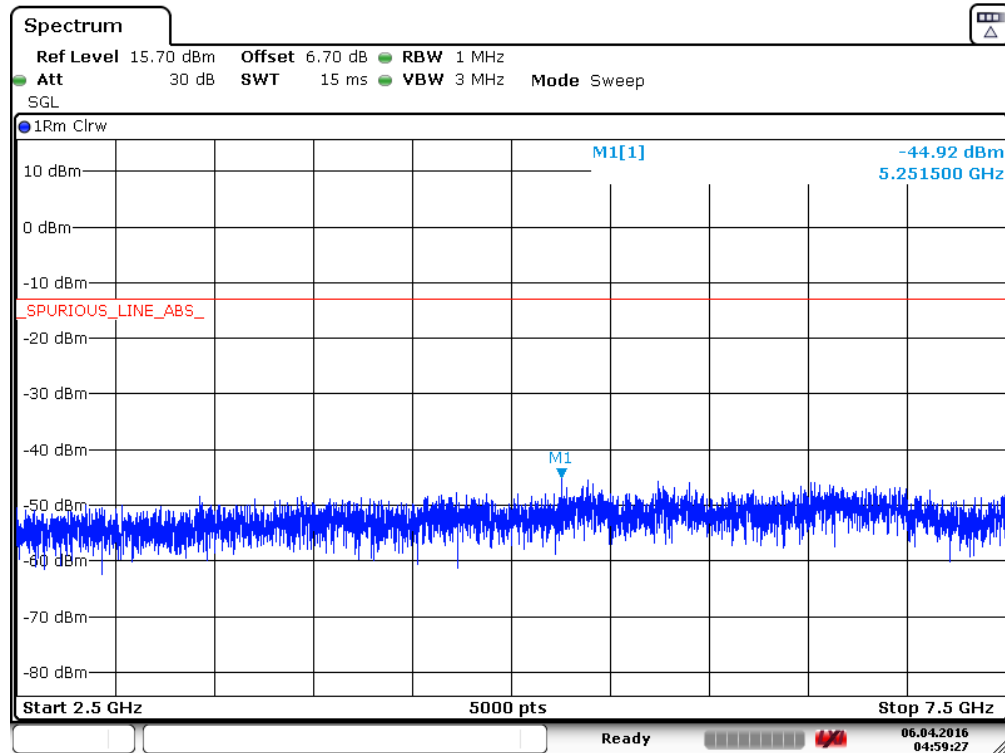
### A. 6.3.34 Channel 777: 1GHz – 2.5GHz

Spurious emission limit –13dBm.



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

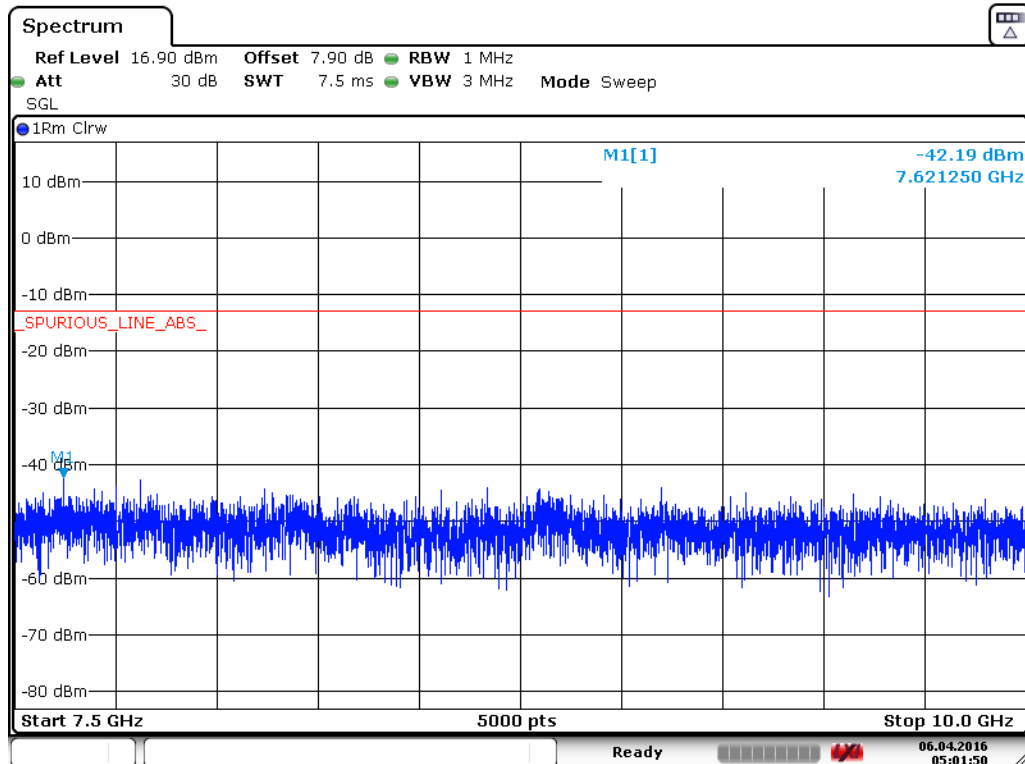
Spurious emission limit –13dBm.



Date: 6.APR.2016 04:59:27

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

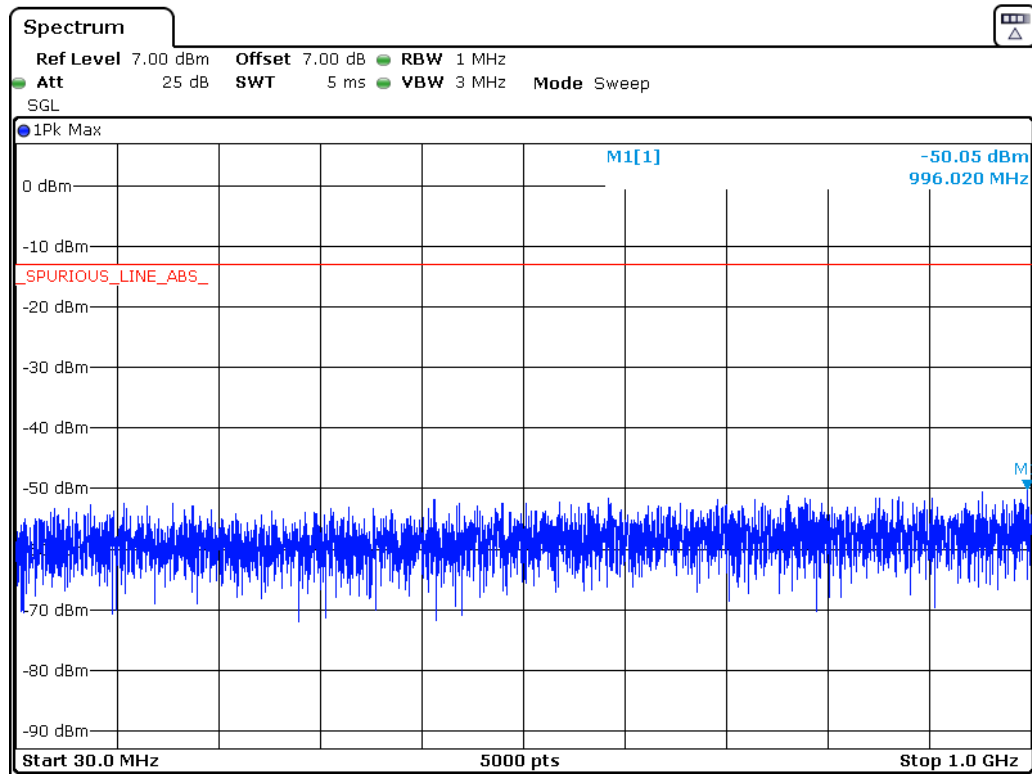
Spurious emission limit –13dBm.



Date: 6.APR.2016 05:01:50

### A. 6.3.37 Idle mode: 30MHz – 1GHz

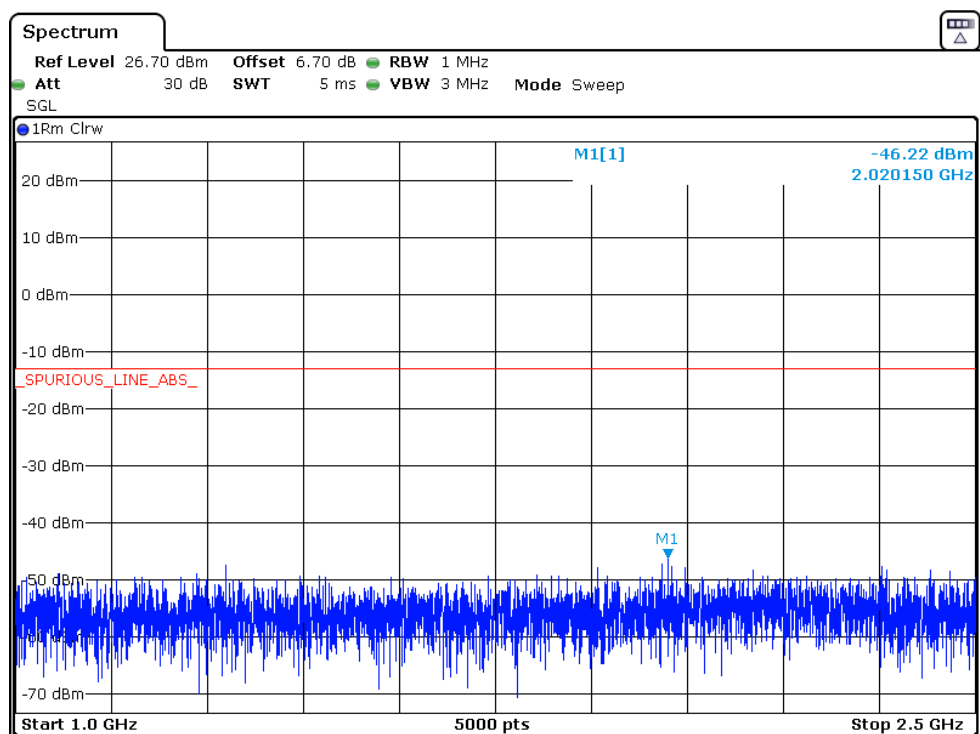
Spurious emission limit -13dBm.



Date: 24.MAR.2016 08:42:59

### A.6.3.38 Idle mode: 1GHz – 2.5GHz

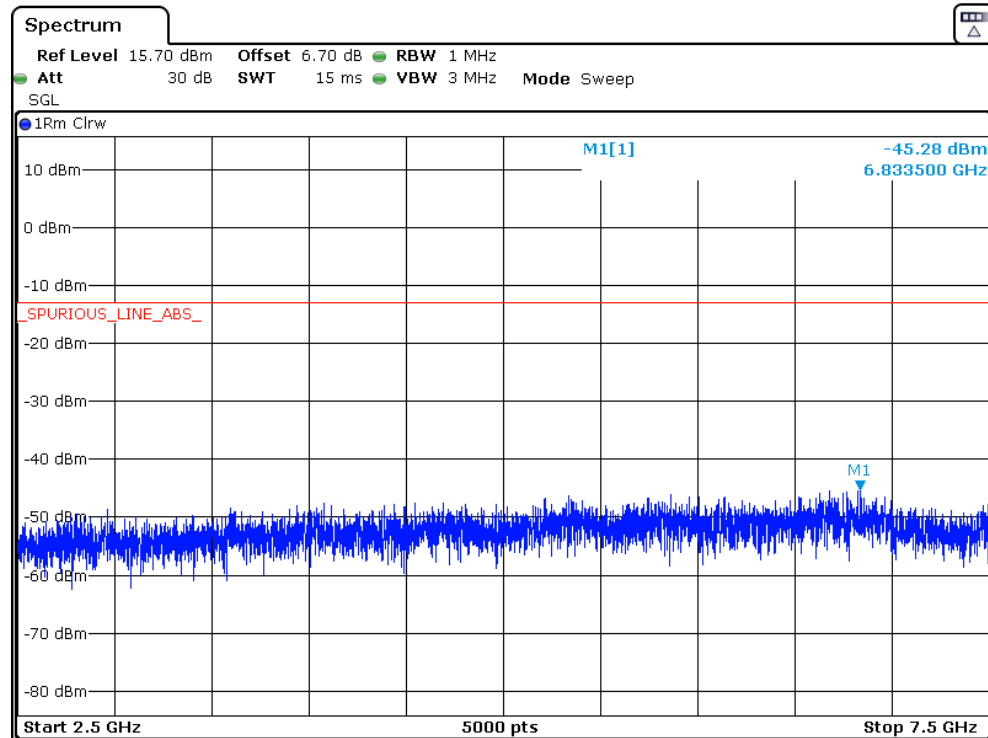
Spurious emission limit -13dBm.



Date: 24.MAR.2016 08:43:59

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

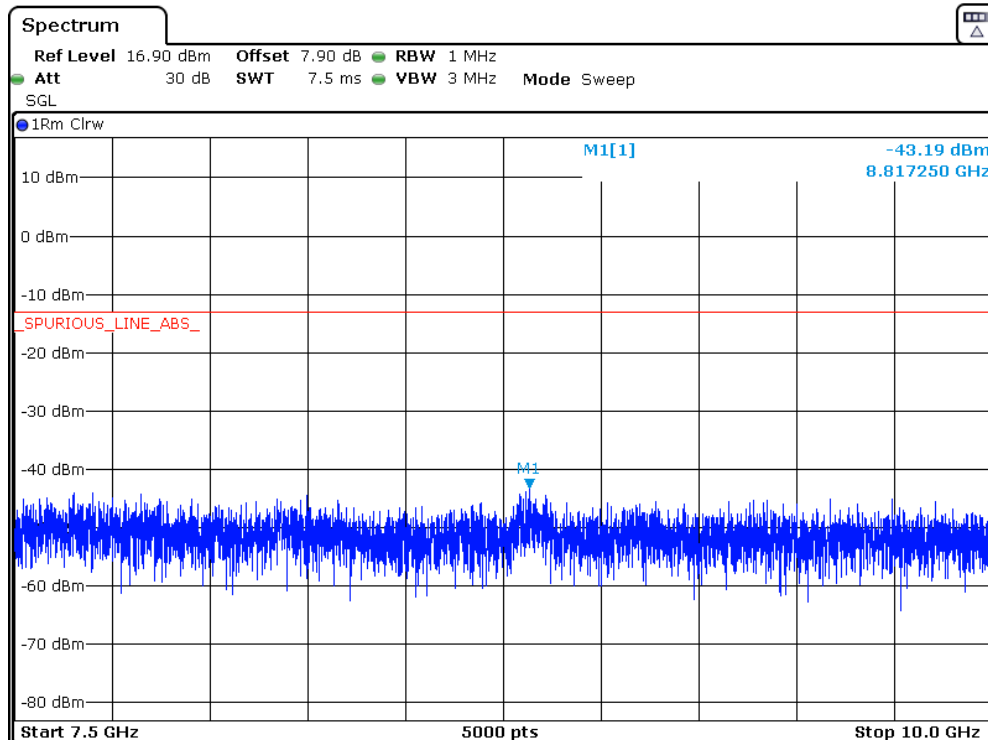
Spurious emission limit -13dBm.



Date: 24.MAR.2016 08:48:45

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

Spurious emission limit -13dBm.



Date: 24.MAR.2016 08:49:34

**A.7 PEAK-TO-AVERAGE POWER RATIO (§24.232(d))****Reference**

FCC: CFR Part 24.232(d)

Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

According to KDB 971168 D01 v02r02 5.7.1:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power Statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval to 1 ms;
- e) Record the maximum PAPR level associated with a probability of 0.1%.

**A.7.1 Measurement limit**

Not exceed 13 dB

**A.7.2 Measurement results****CDMA 800****Measurement result**

Channel	Frequency(MHz)	PAPR(dB)		
		1x RTT	1xEVDO	
			Rel0	RevA
384	836.52	4.00	5.13	5.01

**CDMA 1900****Measurement result**

Channel	Frequency(MHz)	PAPR(dB)		
		1x RTT	1xEVDO	
			Rel0	RevA
600	1880.00	3.71	4.58	4.43

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