



# FCC RF Test Report

APPLICANT : FIBOCOM WIRELESS INC.  
EQUIPMENT : LTE Module  
BRAND NAME : Fibocom  
MODEL NAME : L830-EA  
FCC ID : ZMOL830  
STANDARD : FCC 47 CFR Part 2, and 90(S)  
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Aug. 25, 2015 and testing was completed on Jan. 22, 2016. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-D-2010 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Prepared by: Andy Yeh / Manager

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**SPORTON INTERNATIONAL (KUNSHAN) INC.**  
**No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.**



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**APPENDIX A. SETUP PHOTOGRAPHS**





### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting only	PASS	-
3.2	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	Reporting only	PASS	-
3.3	§2.1051 §90.691	Emission masks – In-band emissions	$< 50+10\log_{10}(P[\text{Watts}])$	PASS	-
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	-
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 42.57 dB at 2452.950MHz
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	$< 2.5 \text{ ppm}$	PASS	-



# 1 General Description

## 1.1 Applicant

FIBOCOM WIRELESS INC.

5/F, Tower A, Technology Building II,1057# Nanhai Blvd, Shenzhen, P.R.China

## 1.2 Manufacturer

FIBOCOM WIRELESS INC.

5/F, Tower A, Technology Building II,1057# Nanhai Blvd, Shenzhen, P.R.China

## 1.3 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	LTE Module
Brand Name	Fibocom
Model Name	L830-EA
FCC ID	ZMOL830
EUT supports Radios application	GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/DC-HSDPA/LTE
IMEI Code	Conducted: 867603020008770 Radiation: 867603020009190
HW Version	V1.0.2
SW Version	L830_V3E.1C.01.00
EUT Stage	Identical Prototype

## 1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	LTE Band 26 : 814.7 ~ 823.3 MHz
Rx Frequency	LTE Band 26 : 859.7 ~ 868.3 MHz
Bandwidth	1.4MHz/3MHz/5MHz/10MHz//15MHz
Maximum Output Power to Antenna	22.33 dBm
Antenna Type	Fixed External Antenna
Type of Modulation	QPSK / 16QAM

Remark: This test report recorded only product characteristics and test results of PCS Licensed Transmitter (PCB).



### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

### 1.6 Maximum Frequency Tolerance and Emission Designator

FCC Rule	System	Type of Modulation	BW	Frequency Tolerance (ppm)	Emission Designator
Part 90S	LTE Band 26	QPSK	1.4 MHz	-	1M10G7D
Part 90S	LTE Band 26	16QAM	1.4 MHz	-	1M10W7D
Part 90S	LTE Band 26	QPSK	3 MHz	-	2M71G7D
Part 90S	LTE Band 26	16QAM	3 MHz	-	2M72W7D
Part 90S	LTE Band 26	QPSK	5 MHz	-	4M52G7D
Part 90S	LTE Band 26	16QAM	5 MHz	-	4M50W7D
Part 90S	LTE Band 26	QPSK	10 MHz	0.0133 ppm	8M95G7D
Part 90S	LTE Band 26	16QAM	10 MHz	-	8M99W7D
Part 90S	LTE Band 26	QPSK	15 MHz	-	13M4G7D
Part 90S	LTE Band 26	16QAM	15 MHz	-	13M4W7D

### 1.7 Testing Site

<b>Test Site</b>	SPORTON INTERNATIONAL (SHENZHEN) INC.	
<b>Test Site Location</b>	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	TH01-SZ	

<b>Test Site</b>	SPORTON INTERNATIONAL (SHENZHEN) INC.	
<b>Test Site Location</b>	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Registration No.</b>
	03CH01-SZ	831040

### 1.8 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- ♦ FCC 47 CFR Part 2, 90(S)
- ♦ ANSI / TIA / EIA-603-D-2010

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

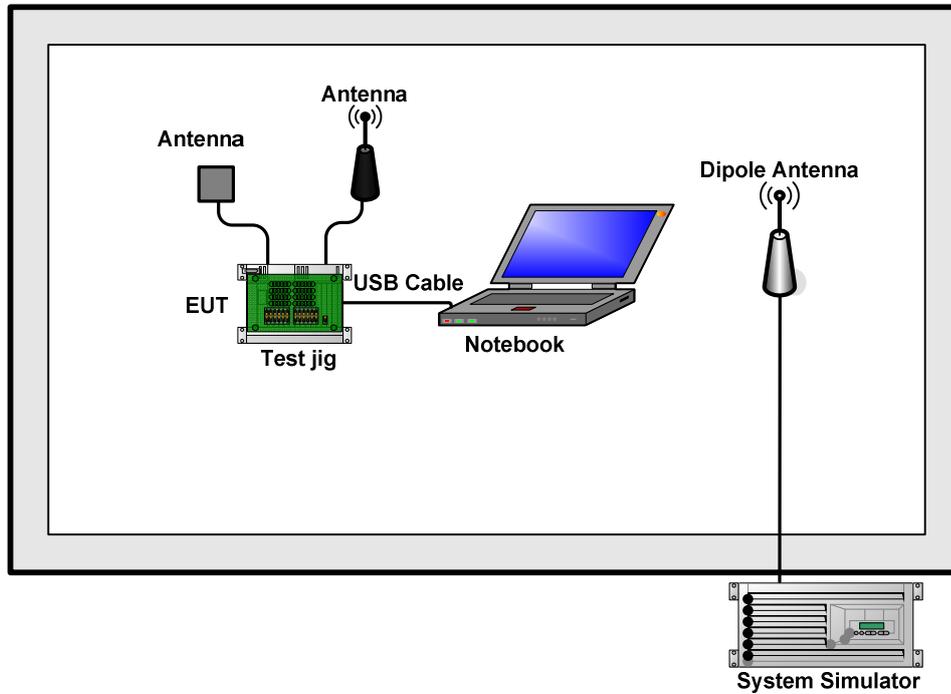
## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	26	v	v	v	v	v	-	v	v	v		v	v	v	v
Conducted Band Edge	26	v	v	v	v	v	-	v	v	v		v	v		v
Conducted Spurious Emission	26	v	v	v	v	v	-	v	v	v			v	v	v
Frequency Stability	26				v		-	v				v		v	
Radiated Spurious Emission	26	v	v	v	v	-	-	v	v	v				v	
Note	<ol style="list-style-type: none"> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</li> </ol>														

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	Lenovo	G480	N/A	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
3.	USB Cable	N/A	N/A	N/A	Unshielded, 1.5m	N/A
4.	WWAN Antenna	N/A	N/A	N/A	N/A	N/A
5.	WWAN Diversity & GPS & Glonass Antenna	N/A	N/A	N/A	N/A	N/A



## **2.4 Measurement Results Explanation Example**

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

The following shows an offset computation example with RF cable loss 4.5 dB and a 10dB attenuator.

Example :

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*

*= 4.5 + 10 = 14.5 (dB)*

### 3 Test Result

#### 3.1 Conducted Output Power Measurement

##### 3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

##### 3.1.4 Test Setup





3.1.5 Test Result of Conducted Output Power

<LTE Band 26 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>					<b>26765</b>	
<b>Frequency (MHz)</b>					<b>821.5</b>	
15	QPSK	1	0		22.08	
15	QPSK	1	37		21.99	
15	QPSK	1	74		21.88	
15	QPSK	36	0		21.43	
15	QPSK	36	20		21.24	
15	QPSK	36	39		21.32	
15	QPSK	75	0		21.39	
15	16QAM	1	0		21.40	
15	16QAM	1	37		21.32	
15	16QAM	1	74		21.11	
15	16QAM	36	0		20.43	
15	16QAM	36	20		20.24	
15	16QAM	36	39		20.30	
15	16QAM	75	0		20.37	
<b>Channel</b>					<b>26740</b>	
<b>Frequency (MHz)</b>					<b>819</b>	
10	QPSK	1	0		21.99	
10	QPSK	1	25		21.96	
10	QPSK	1	49		21.96	
10	QPSK	25	0		21.05	
10	QPSK	25	12		21.03	
10	QPSK	25	25		21.05	
10	QPSK	50	0		21.07	
10	16QAM	1	0		21.33	
10	16QAM	1	25		21.34	
10	16QAM	1	49		21.29	
10	16QAM	25	0		20.18	
10	16QAM	25	12		20.11	
10	16QAM	25	25		20.15	
10	16QAM	50	0		20.23	



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>26715</b>	<b>26740</b>	<b>26765</b>
<b>Frequency (MHz)</b>				<b>816.5</b>	<b>819</b>	<b>821.5</b>
5	QPSK	1	0	22.01	21.78	21.85
5	QPSK	1	12	22.05	21.87	21.87
5	QPSK	1	24	21.92	21.78	21.72
5	QPSK	12	0	21.26	21.00	21.03
5	QPSK	12	7	21.12	20.97	21.00
5	QPSK	12	13	21.13	21.01	20.96
5	QPSK	25	0	21.09	20.98	20.98
5	16QAM	1	0	21.29	21.14	21.13
5	16QAM	1	12	21.36	21.24	21.15
5	16QAM	1	24	21.23	21.12	20.98
5	16QAM	12	0	20.29	20.05	20.12
5	16QAM	12	7	20.23	20.01	20.08
5	16QAM	12	13	20.17	20.03	20.04
5	16QAM	25	0	20.23	20.01	19.99



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>26705</b>	<b>26740</b>	<b>26775</b>
<b>Frequency (MHz)</b>				<b>815.5</b>	<b>819</b>	<b>822.5</b>
3	QPSK	1	0	22.23	22.05	22.04
3	QPSK	1	8	22.29	22.14	22.06
3	QPSK	1	14	22.20	22.07	21.97
3	QPSK	8	0	21.29	21.11	21.11
3	QPSK	8	4	21.27	21.13	21.07
3	QPSK	8	7	21.26	21.13	21.06
3	QPSK	15	0	21.26	21.12	21.09
3	16QAM	1	0	21.63	21.46	21.46
3	16QAM	1	8	21.61	21.45	21.39
3	16QAM	1	14	21.51	21.31	21.31
3	16QAM	8	0	20.46	20.24	20.26
3	16QAM	8	4	20.35	20.15	20.18
3	16QAM	8	7	20.36	20.20	20.20
3	16QAM	15	0	20.40	20.18	20.20
<b>Channel</b>				<b>26697</b>	<b>26740</b>	<b>26783</b>
<b>Frequency (MHz)</b>				<b>814.7</b>	<b>819</b>	<b>823.3</b>
1.4	QPSK	1	0	22.29	22.13	22.14
1.4	QPSK	1	3	21.91	21.74	21.71
1.4	QPSK	1	5	22.33	22.14	22.12
1.4	QPSK	3	0	22.26	22.07	22.00
1.4	QPSK	3	1	22.13	21.95	21.85
1.4	QPSK	3	3	22.32	22.12	22.01
1.4	QPSK	6	0	21.30	21.06	21.01
1.4	16QAM	1	0	21.65	21.46	21.44
1.4	16QAM	1	3	21.30	21.07	20.99
1.4	16QAM	1	5	21.73	21.48	21.43
1.4	16QAM	3	0	21.37	21.14	21.16
1.4	16QAM	3	1	21.27	21.04	21.01
1.4	16QAM	3	3	21.40	21.17	21.11
1.4	16QAM	6	0	20.43	20.20	20.17

Note: Maximum average power for LTE.

## 3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement

### 3.2.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

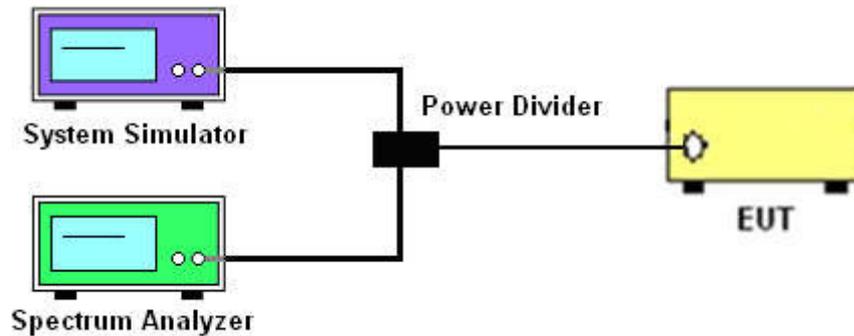
### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.  
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

### 3.2.4 Test Setup



### 3.2.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Modes		LTE Band 26											
BW / Mod.		1.4MHz / QPSK			1.4MHz / 16QAM			3MHz / QPSK			3MHz / 16QAM		
		Low	Mid.	High	Low	Mid.	High	Low	Mid.	High	Low	Mid.	High
99% OBW (MHz)	Full RB	1.088	1.105	1.094	1.085	1.099	1.105	2.697	2.709	2.703	2.715	2.721	2.697
	1RB0	0.299			0.310			0.521			0.539		
	1RBmax			0.297			0.299			0.539			0.521
26dB BW (MHz)	Full RB	1.323	1.312	1.323	1.292	1.298	1.290	2.961	3.057	3.045	3.057	3.045	3.081
BW / Mod.		5MHz / QPSK			5MHz / 16QAM			10MHz / QPSK			10MHz / 16QAM		
		Low	Mid.	High	Low	Mid.	High	Low	Mid.	High	Low	Mid.	High
99% OBW (MHz)	Full	4.466	4.496	4.515	4.476	4.476	4.496		8.951			8.991	
	1RB0	0.679			0.699				1.638			1.718	
	1RBmax			0.649			0.639		1.738			1.658	
26dB BW (MHz)	Full RB	4.925	4.815	4.995	4.825	4.915	5.035		10.010			10.430	
BW / Mod.		15MHz / QPSK			15MHz / 16QAM								
		Low	Mid.	High	Low	Mid.	High						
99% OBW (MHz)	Full		13.427			13.427							
	1RB0		2.428			2.428							
	1RBmax		2.248			2.188							
26dB BW (MHz)	Full RB		14.865			14.146							



**Note:** The maximum RB configurations of the 99% Occupied Bandwidth and 26dB Bandwidth summary as below:

Full RB:

BW1.4MHz RB setting : RB Size 6, RB offset 0

BW3.0MHz RB setting : RB Size 15, RB offset 0

BW5.0MHz RB setting : RB Size 25, RB offset 0

BW10MHz RB setting : RB Size 50, RB offset 0

BW15MHz RB setting : RB Size 75, RB offset 0

1RBmax:

BW1.4MHz RB setting : RB Size 1, RB offset 5

BW3.0MHz RB setting : RB Size 1, RB offset 14

BW5.0MHz RB setting : RB Size 1, RB offset 24

BW10MHz RB setting : RB Size 1, RB offset 49

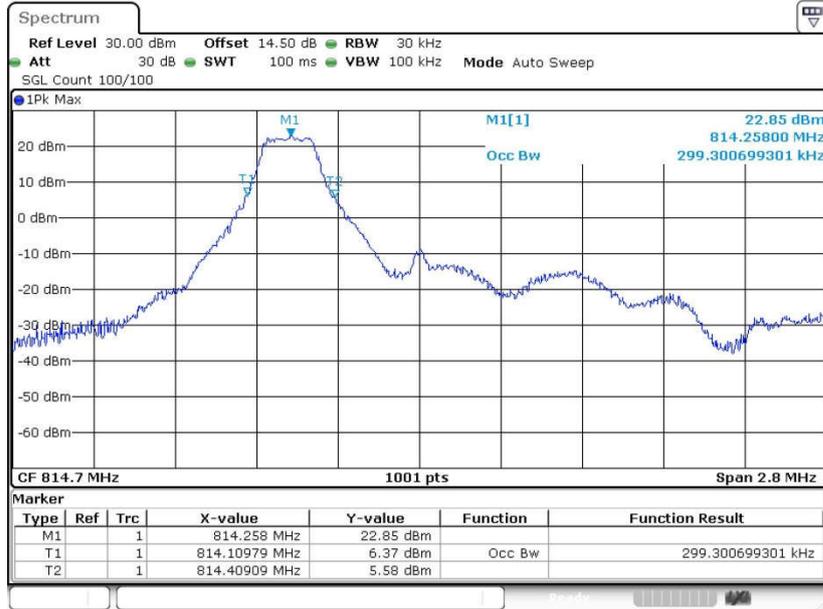
BW15MHz RB setting : RB Size 1, RB offset 74



3.2.6 Test Result (Plots) of 99% Occupied Bandwidth and 26dB Bandwidth

Band :	LTE Band 26	BW / Mod. :	1.4MHz / QPSK
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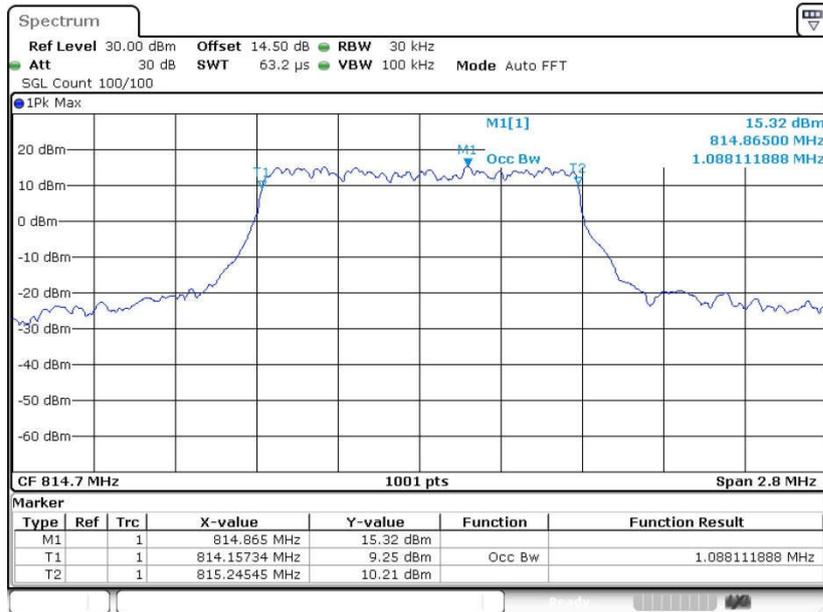
99% Occupied Bandwidth Plot on Channel 26697 for QPSK-RB Size 1, RB Offset 0



Date: 22.JAN.2016 01:45:17

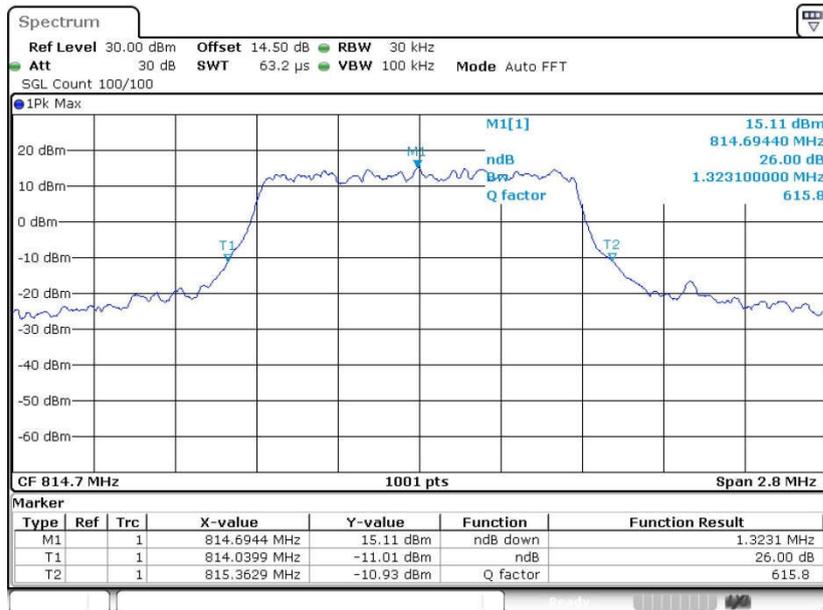


**99% Occupied Bandwidth Plot on Channel 26697 for QPSK-RB  
Size 6, RB Offset 0**



Date: 28.OCT.2015 08:02:51

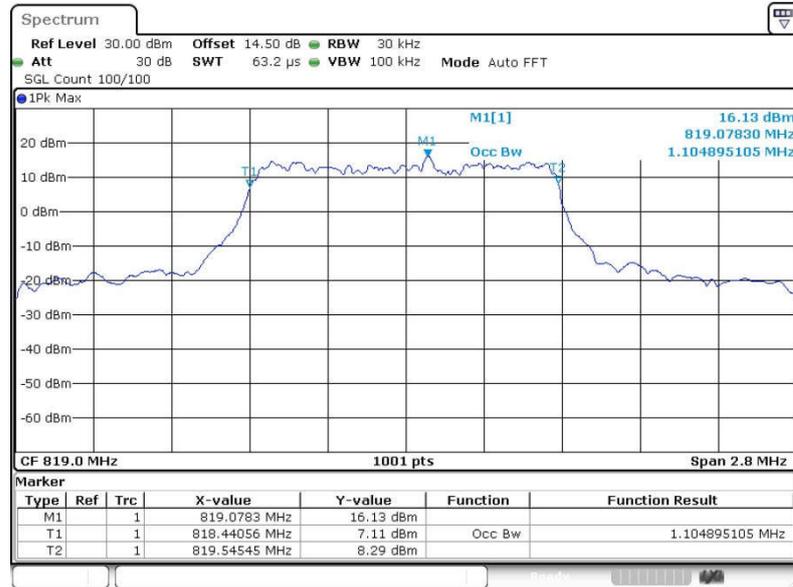
**26dB Bandwidth Plot on Channel 26697**



Date: 28.OCT.2015 08:03:23

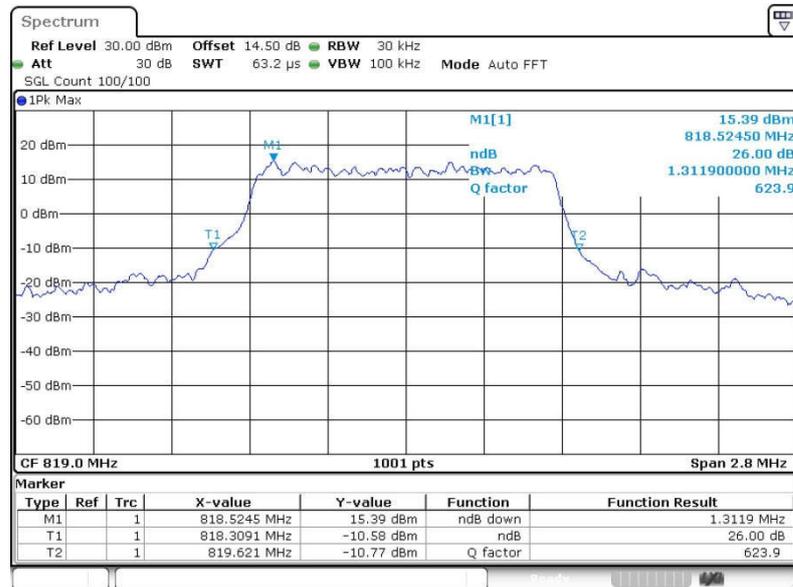


99% Occupied Bandwidth Plot on Channel 26740



Date: 28.OCT.2015 08:05:28

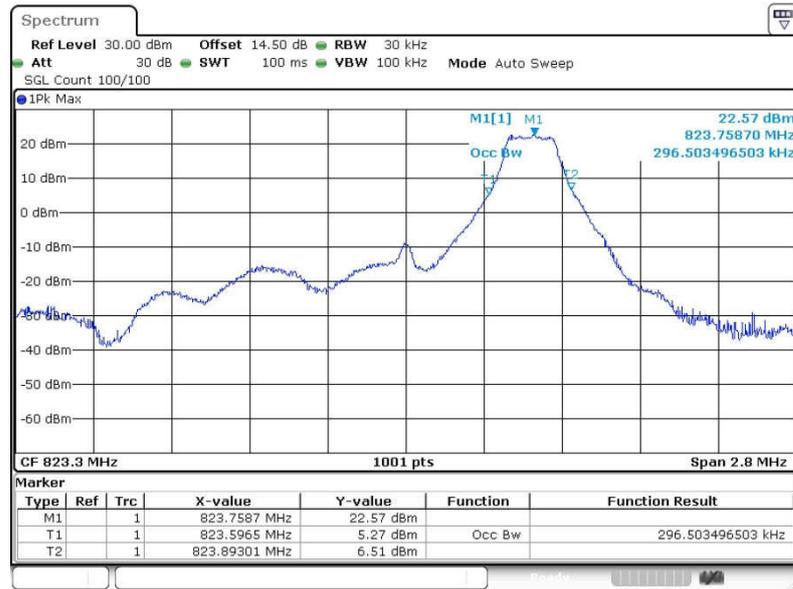
26dB Bandwidth Plot on Channel 26740



Date: 28.OCT.2015 08:05:50

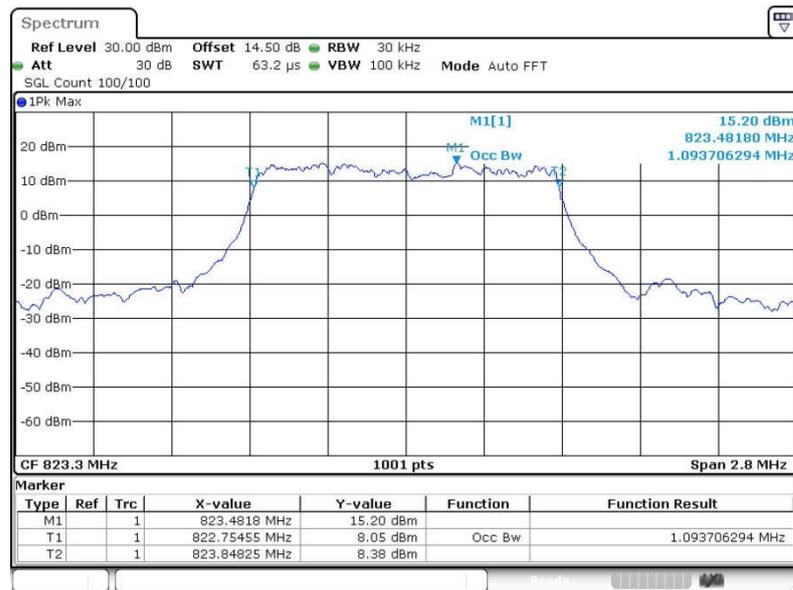


99% Occupied Bandwidth Plot on Channel 26783 for QPSK-RB Size 1, RB Offset 5



Date: 22.JAN.2016 01:46:04

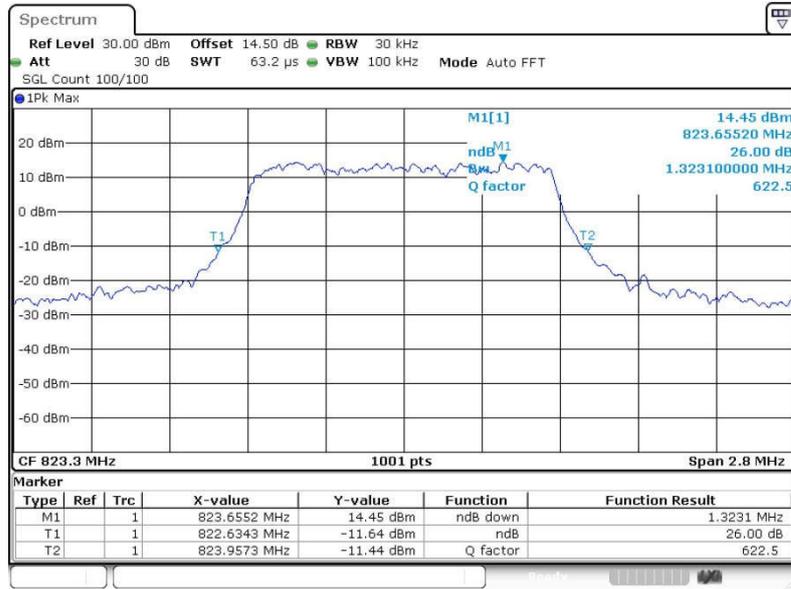
99% Occupied Bandwidth Plot on Channel 26783 for QPSK-RB Size 6, RB Offset 0



Date: 28.OCT.2015 08:08:05



26dB Bandwidth Plot on Channel 26783

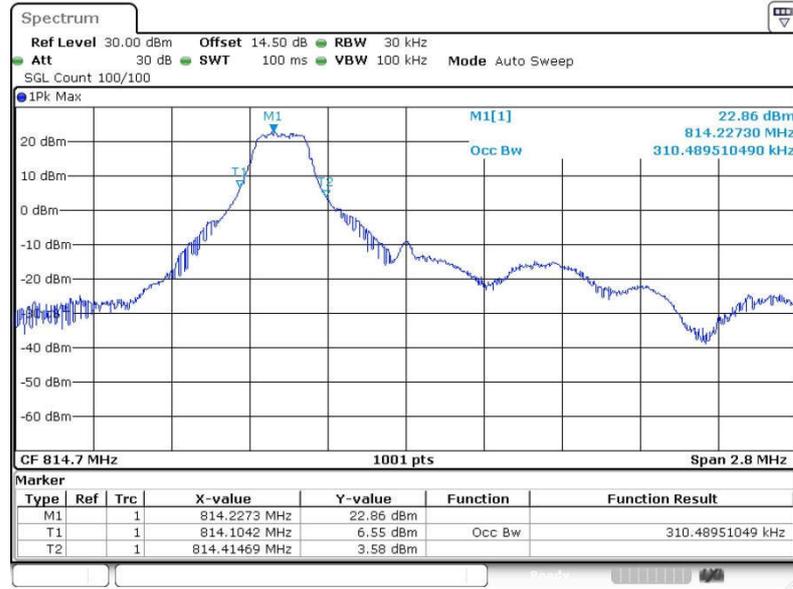


Date: 26.OCT.2015 08:08:26



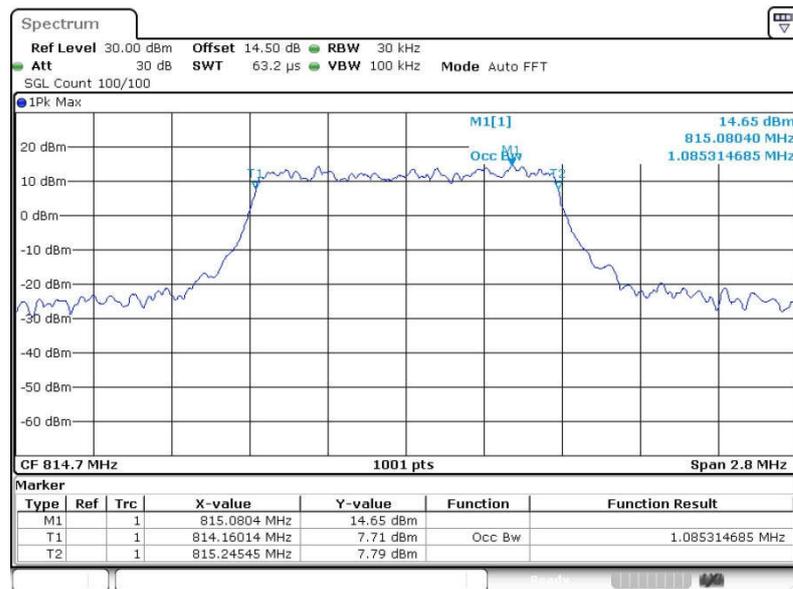
<b>Band :</b>	LTE Band 26	<b>BW / Mod. :</b>	1.4MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 26697 for  
16QAM-RB Size 1, RB Offset 0**



Date: 22.JAN.2016 01:45:38

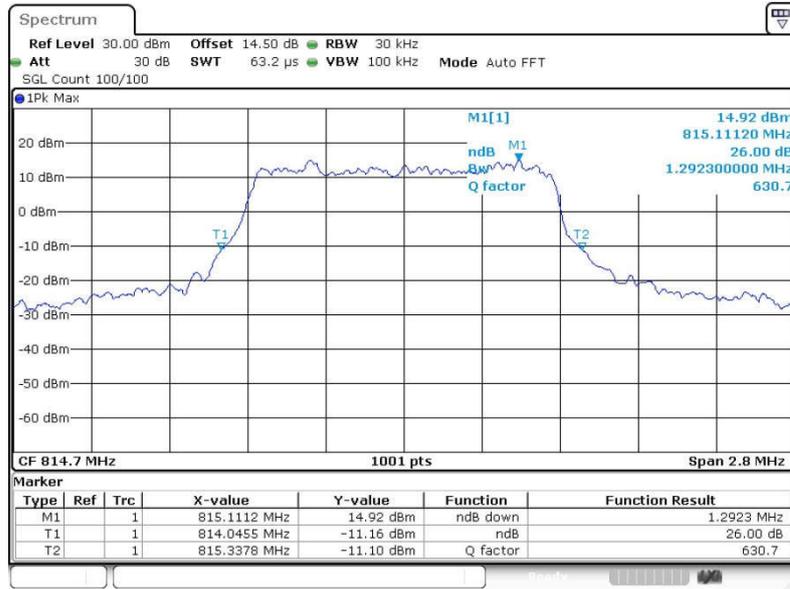
**99% Occupied Bandwidth Plot on Channel 26697 for  
16QAM-RB Size 6, RB Offset 0**



Date: 28.OCT.2015 08:03:02



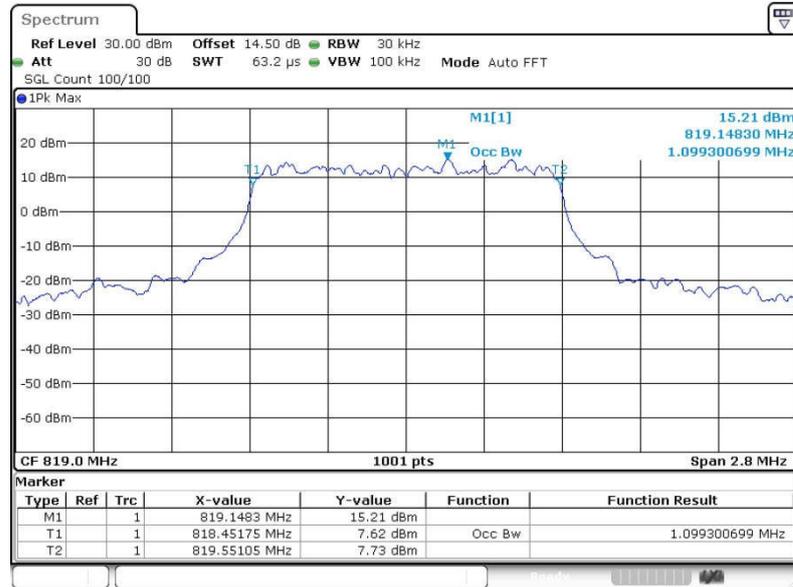
26dB Bandwidth Plot on Channel 26697



Date: 26.OCT.2015 08:03:13

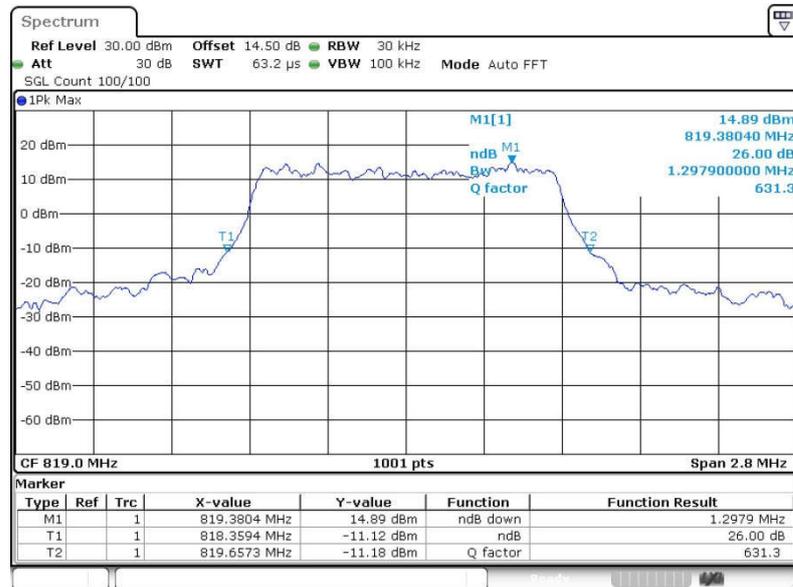


99% Occupied Bandwidth Plot on Channel 26740



Date: 28.OCT.2015 08:05:39

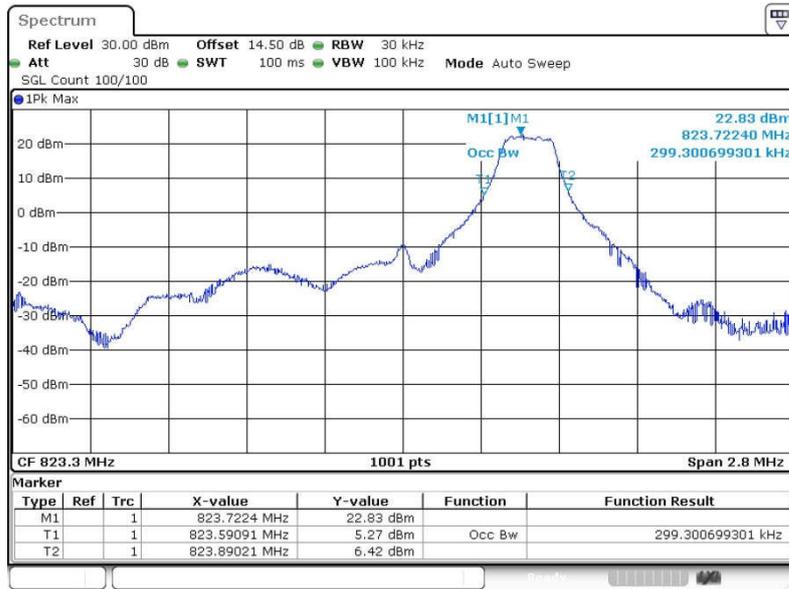
26dB Bandwidth Plot on Channel 26740



Date: 28.OCT.2015 08:06:00

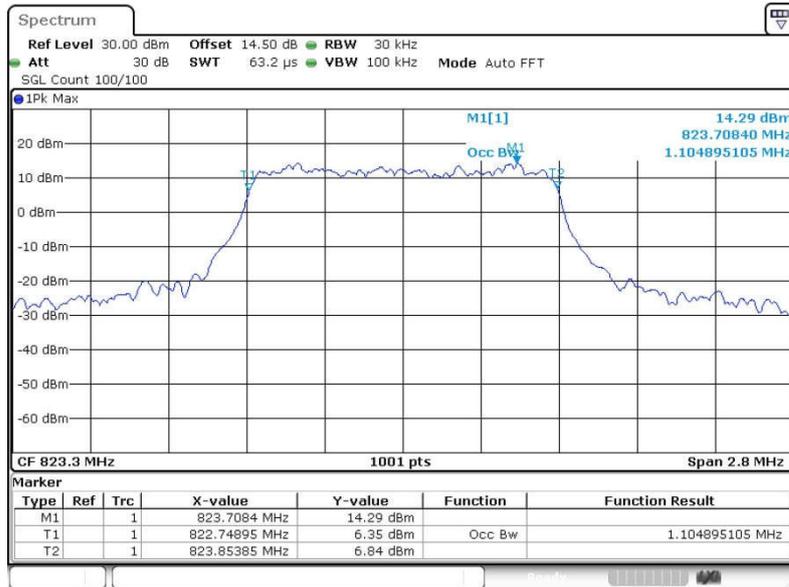


99% Occupied Bandwidth Plot on Channel 26783 for  
16QAM-RB Size 1, RB Offset 5



Date: 22.JAN.2016 01:46:25

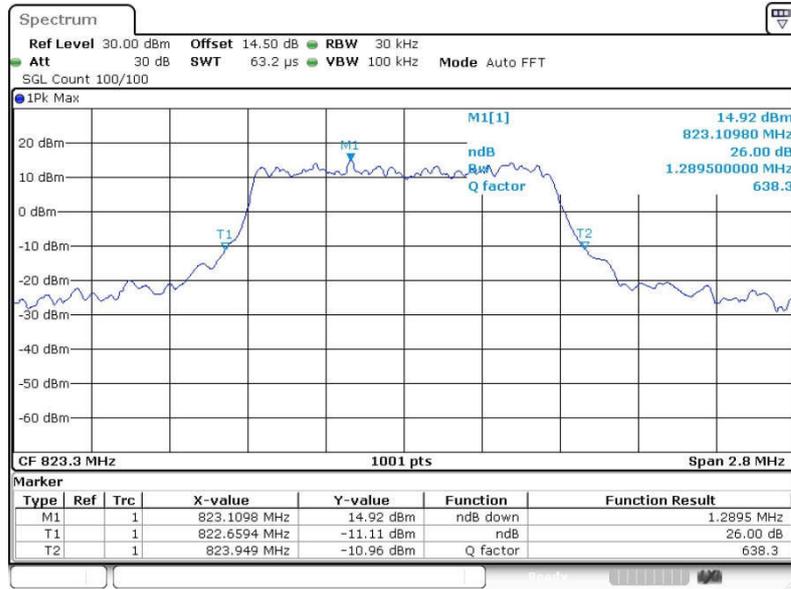
99% Occupied Bandwidth Plot on Channel 26783 for  
16QAM-RB Size 6, RB Offset 0



Date: 28.OCT.2015 08:08:16



26dB Bandwidth Plot on Channel 26783

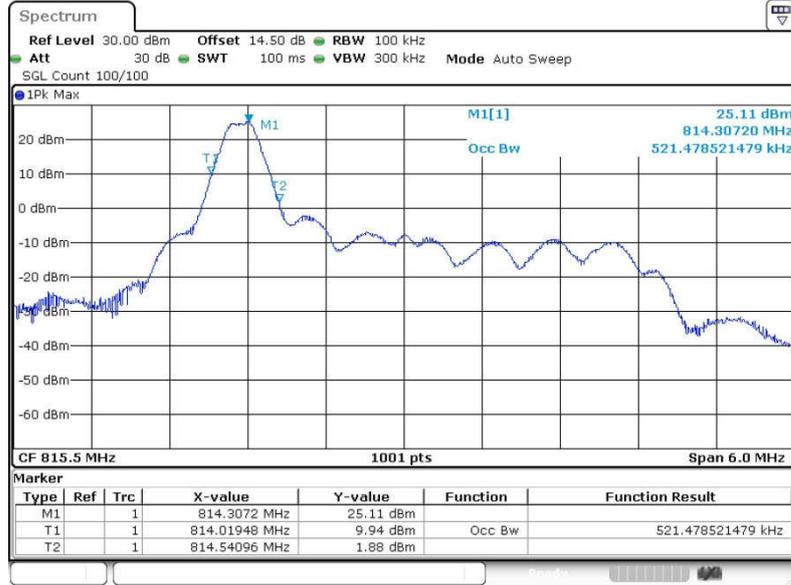


Date: 26.OCT.2015 08:08:37



<b>Band :</b>	LTE Band 26	<b>BW / Mod. :</b>	3MHz / QPSK
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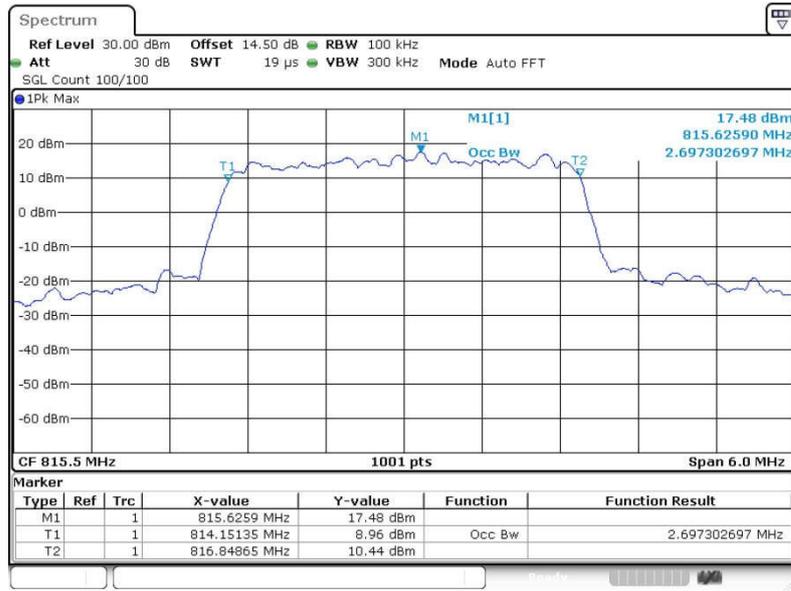
**99% Occupied Bandwidth Plot on Channel 26705 for QPSK-RB  
Size 1, RB Offset 0**



Date: 22.JAN.2016 01:46:51

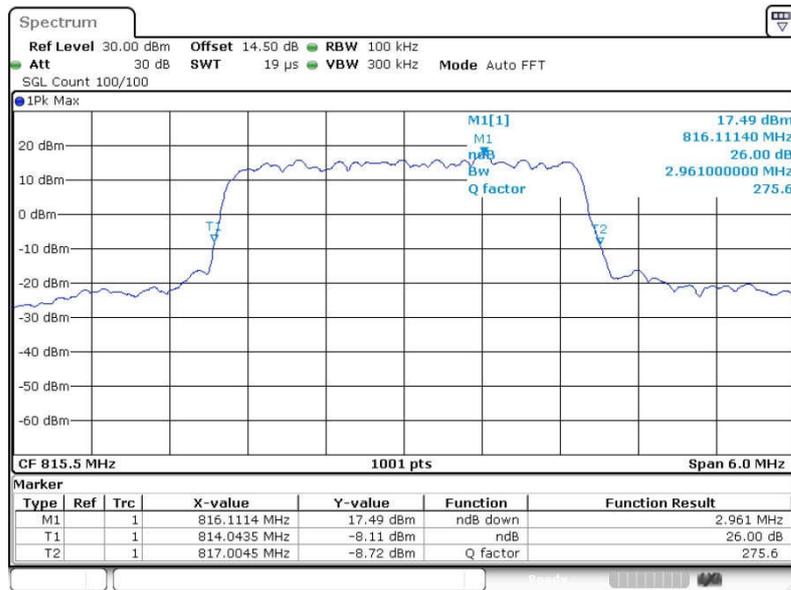


99% Occupied Bandwidth Plot on Channel 26705 for QPSK-RB  
Size 15, RB Offset 0



Date: 26.OCT.2015 08:10:42

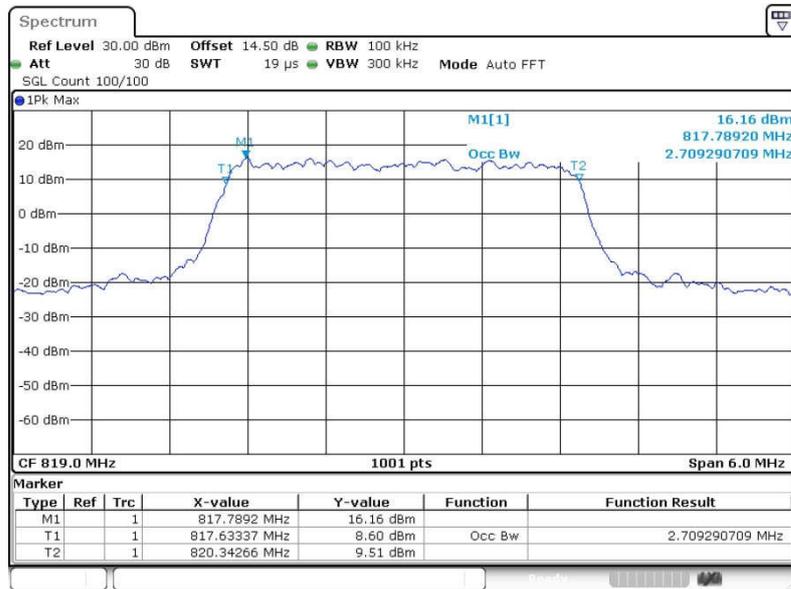
26dB Bandwidth Plot on Channel 26705



Date: 26.OCT.2015 08:11:03

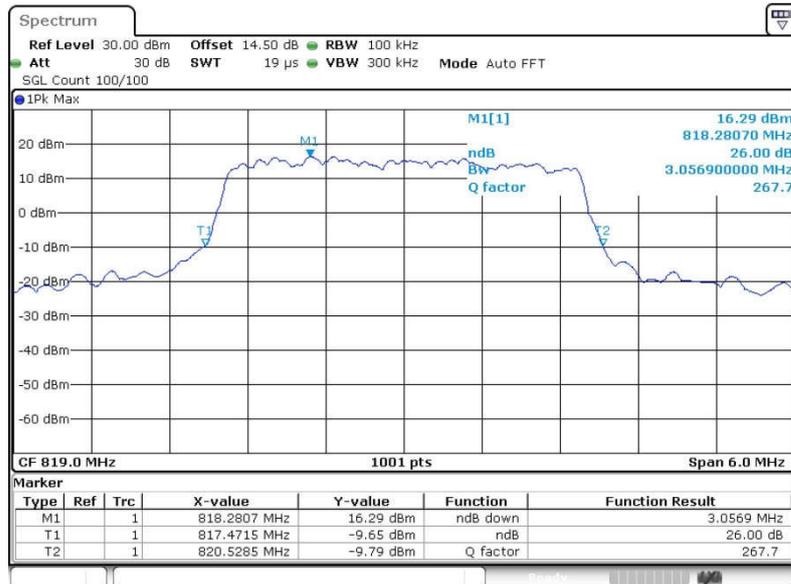


99% Occupied Bandwidth Plot on Channel 26740



Date: 26.OCT.2015 08:13:19

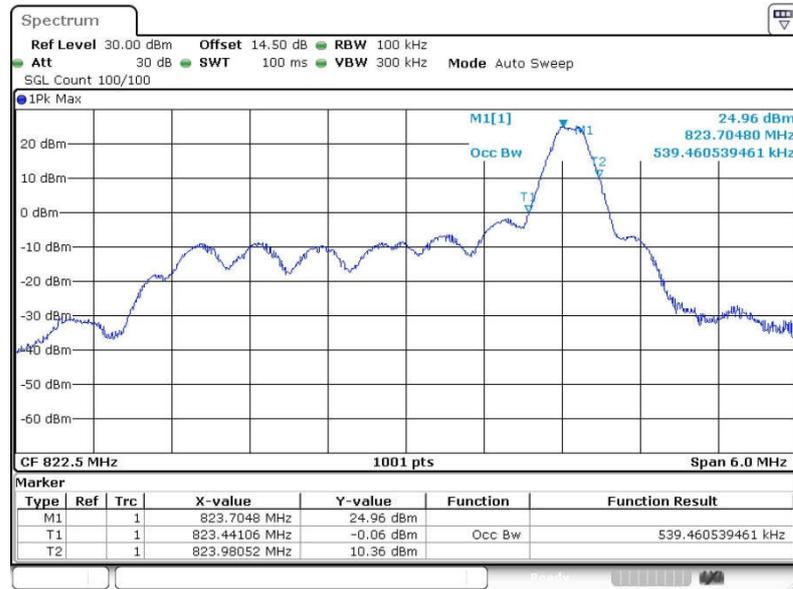
26dB Bandwidth Plot on Channel 26740



Date: 26.OCT.2015 08:13:40

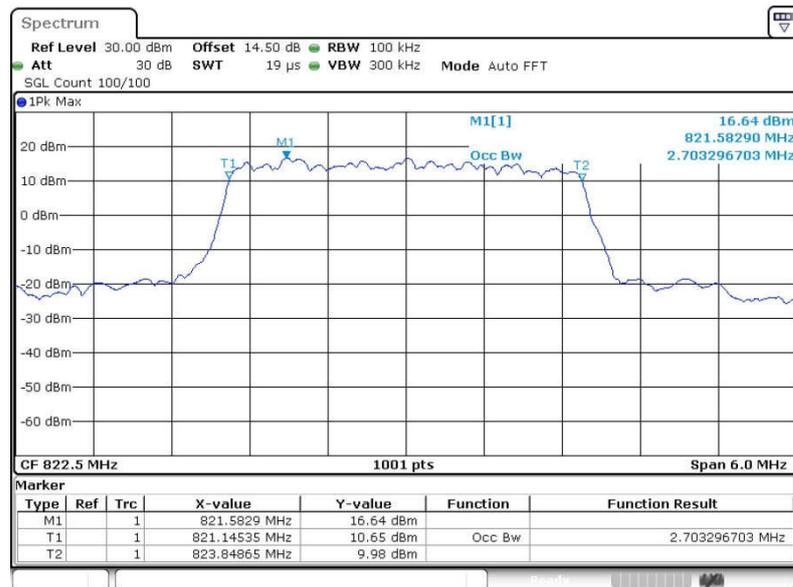


**99% Occupied Bandwidth Plot on Channel 26775 for QPSK-RB  
Size 1, RB Offset 14**



Date: 22.JAN.2016 01:47:46

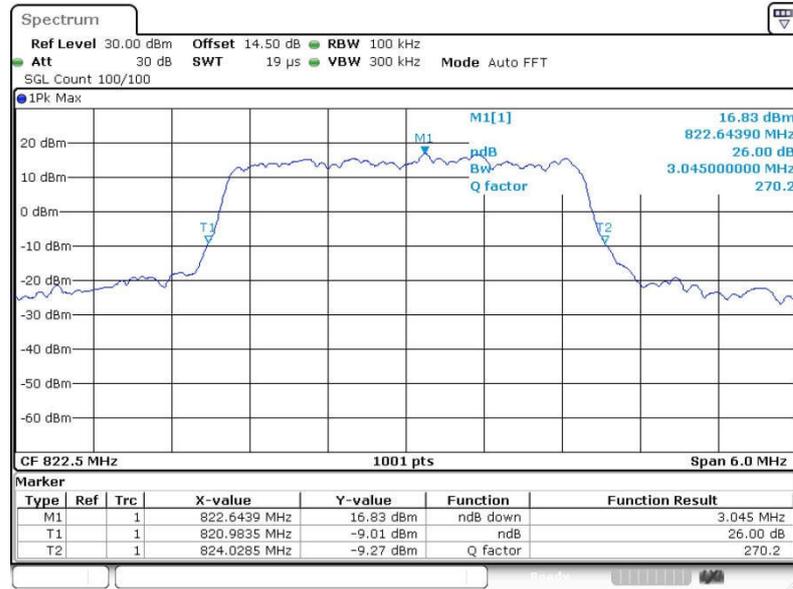
**99% Occupied Bandwidth Plot on Channel 26775 for QPSK-RB  
Size 15, RB Offset 0**



Date: 28.OCT.2015 08:15:56



26dB Bandwidth Plot on Channel 26775

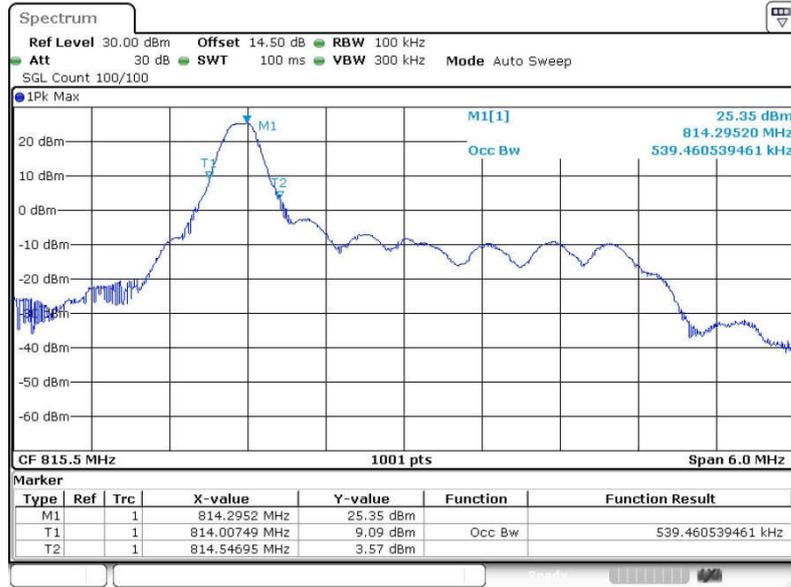


Date: 28.OCT.2015 08:16:17



<b>Band :</b>	LTE Band 26	<b>BW / Mod. :</b>	3MHz / 16QAM
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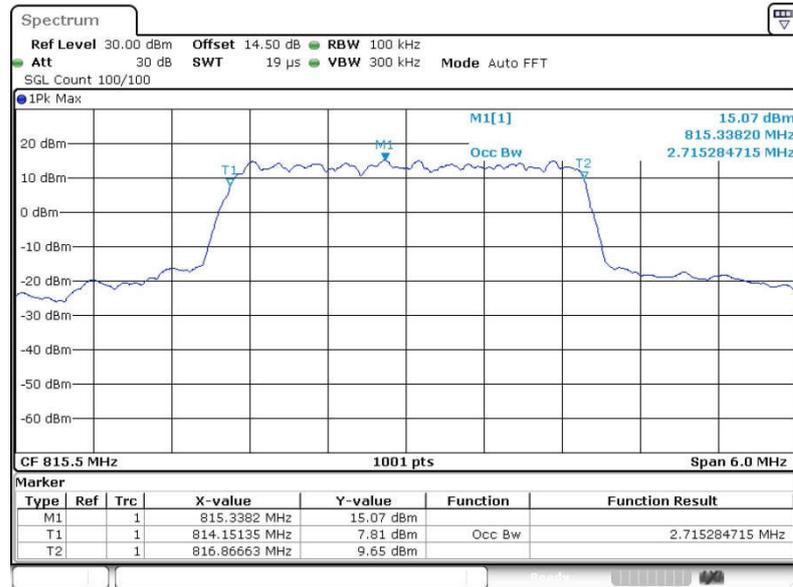
**99% Occupied Bandwidth Plot on Channel 26705 for  
16QAM-RB Size 1, RB Offset 0**



Date: 22.JAN.2016 01:47:16

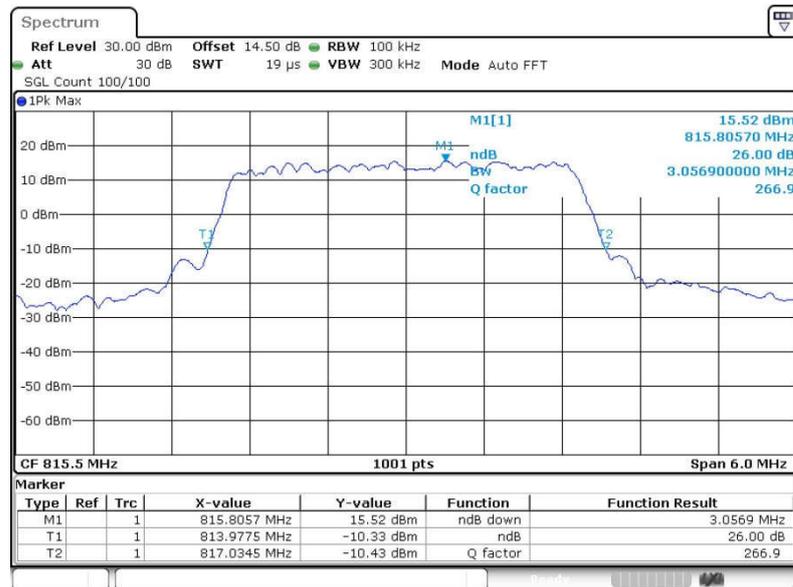


99% Occupied Bandwidth Plot on Channel 26705 for  
16QAM-RB Size 15, RB Offset 0



Date: 28.OCT.2015 08:10:53

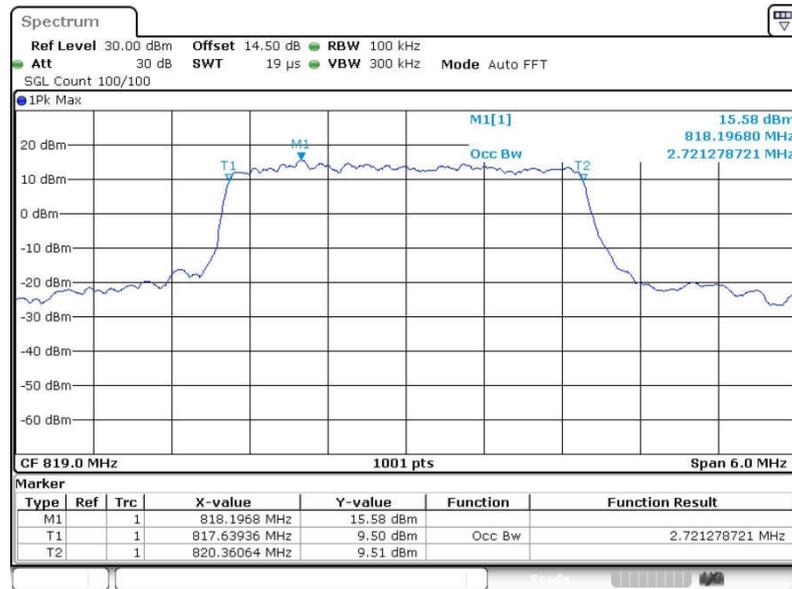
26dB Bandwidth Plot on Channel 26705



Date: 28.OCT.2015 08:11:14

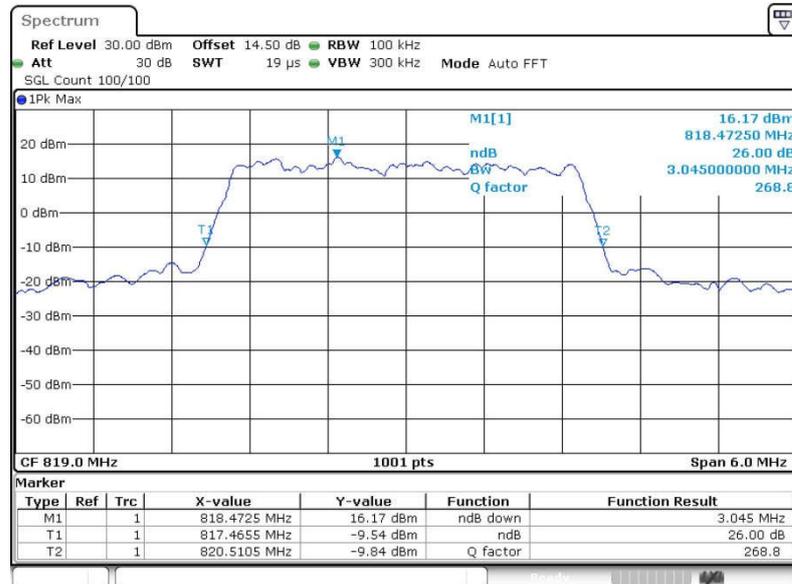


99% Occupied Bandwidth Plot on Channel 26740



Date: 26.OCT.2015 08:13:30

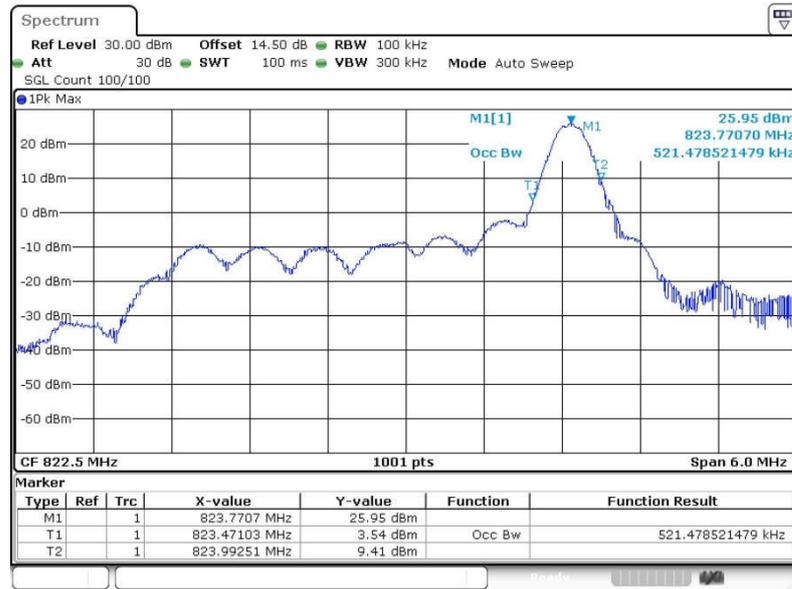
26dB Bandwidth Plot on Channel 26740



Date: 26.OCT.2015 08:13:51

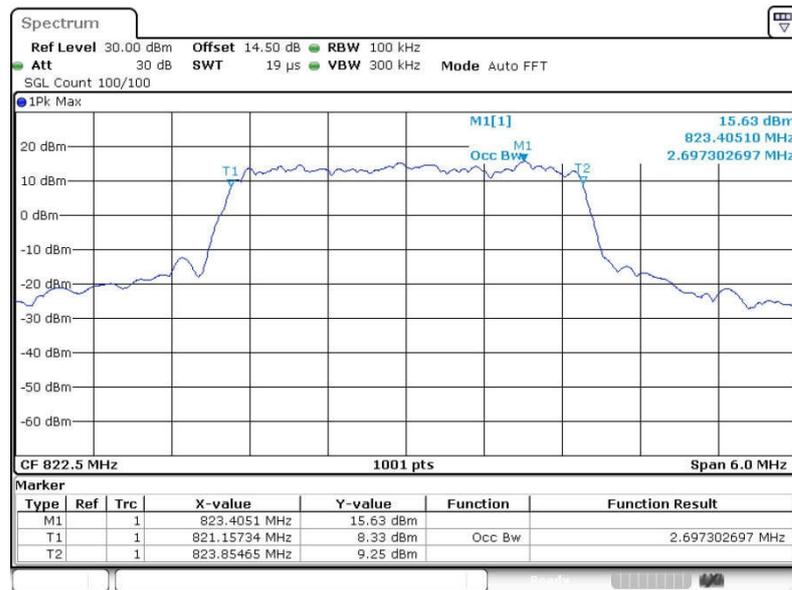


99% Occupied Bandwidth Plot on Channel 26775 for  
16QAM-RB Size 1, RB Offset 14



Date: 22.JAN.2016 01:49:01

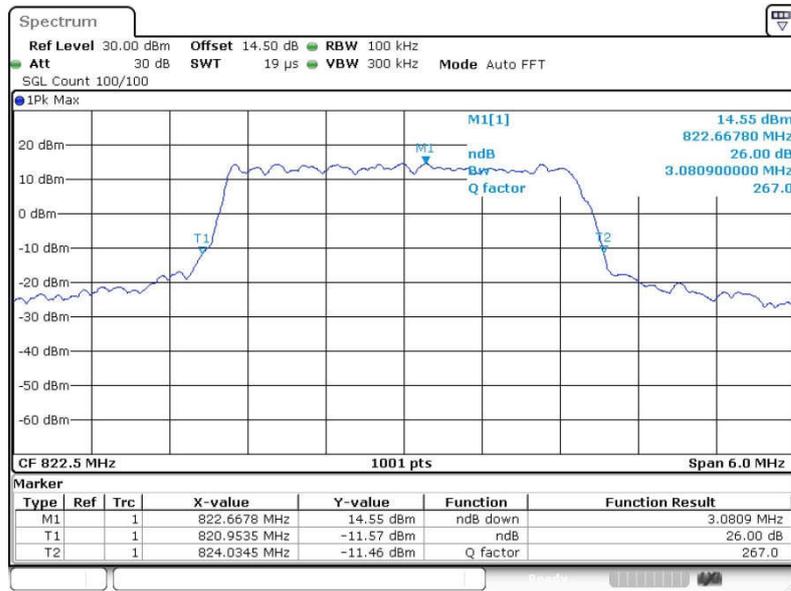
99% Occupied Bandwidth Plot on Channel 26775 for  
16QAM-RB Size 15, RB Offset 0



Date: 28.OCT.2015 08:16:06



26dB Bandwidth Plot on Channel 26775

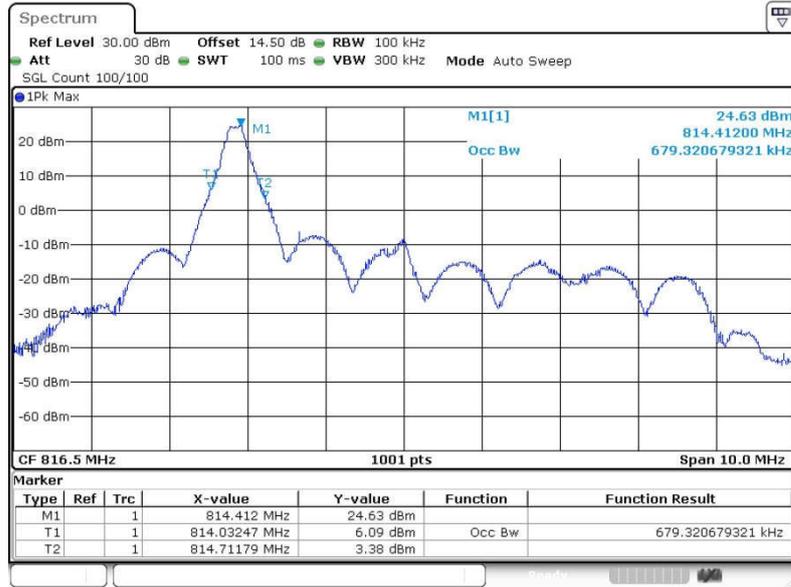


Date: 28.OCT.2015 08:16:27



<b>Band :</b>	LTE Band 26	<b>BW / Mod. :</b>	5MHz / QPSK
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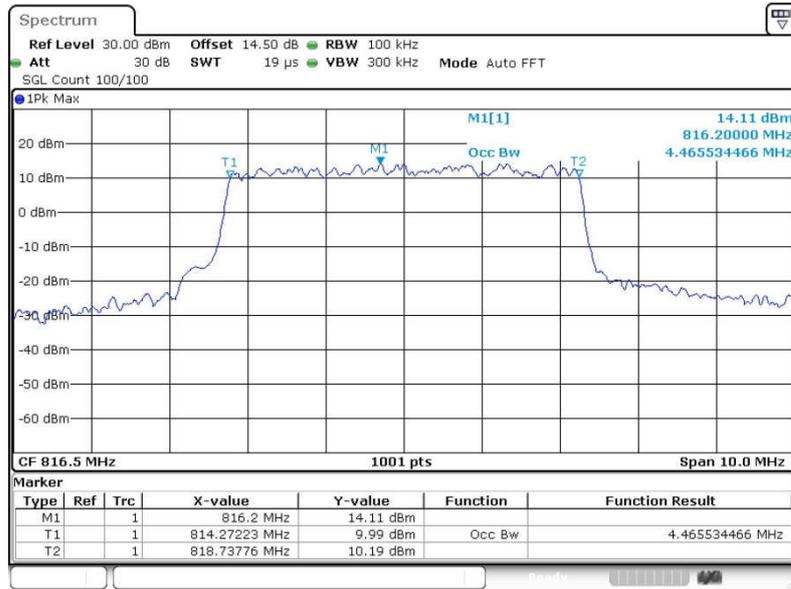
**99% Occupied Bandwidth Plot on Channel 26715 for QPSK-RB  
Size 1, RB Offset 0**



Date: 22.JAN.2016 01:50:53

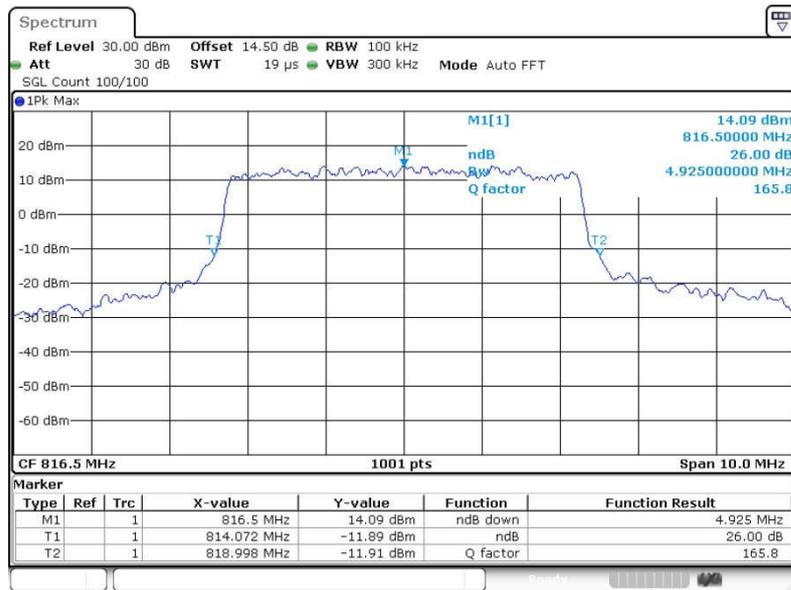


99% Occupied Bandwidth Plot on Channel 26715 for QPSK-RB  
Size 25, RB Offset 0



Date: 26.OCT.2015 08:18:33

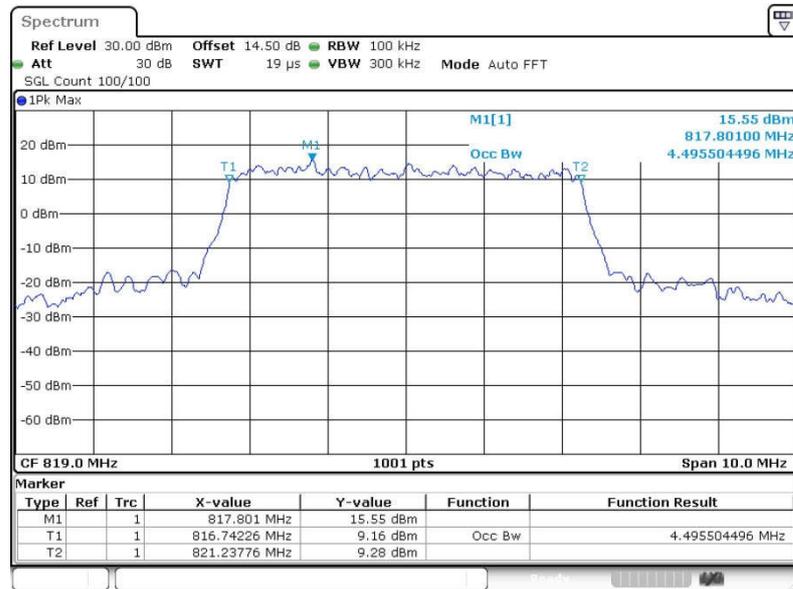
26dB Bandwidth Plot on Channel 26715



Date: 26.OCT.2015 08:18:54

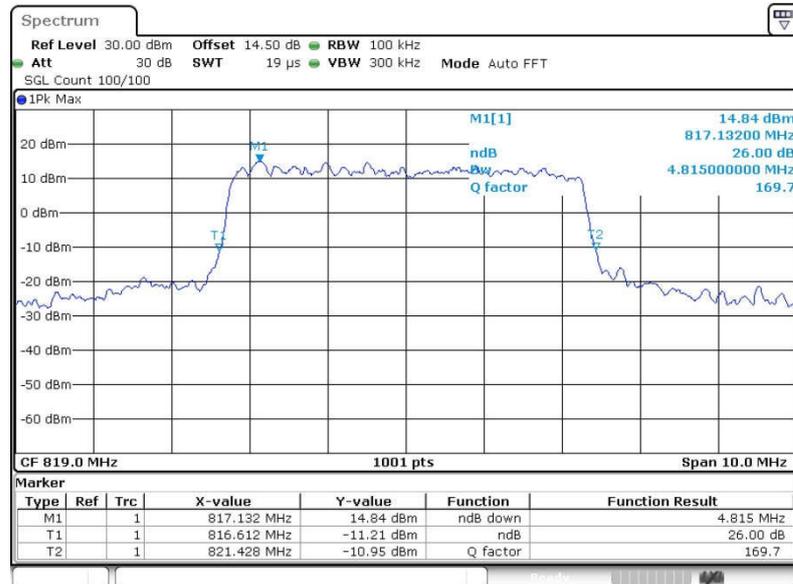


99% Occupied Bandwidth Plot on Channel 26740



Date: 26.OCT.2015 08:21:10

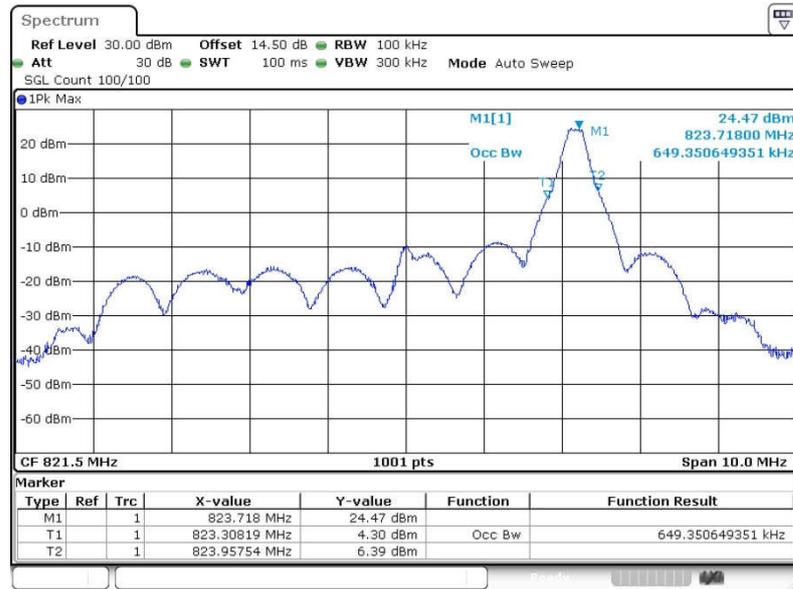
26dB Bandwidth Plot on Channel 26740



Date: 26.OCT.2015 08:21:31

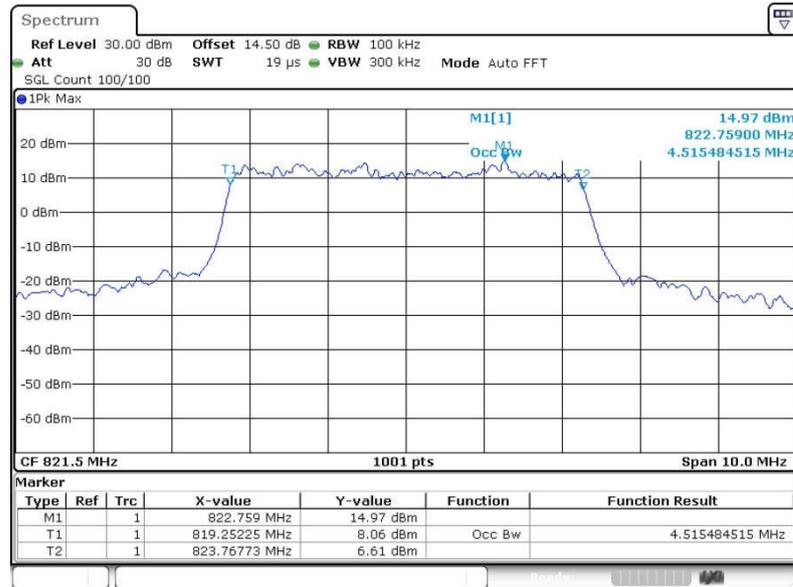


99% Occupied Bandwidth Plot on Channel 26765 for QPSK-RB  
Size 1, RB Offset 14



Date: 22.JAN.2016 01:52:13

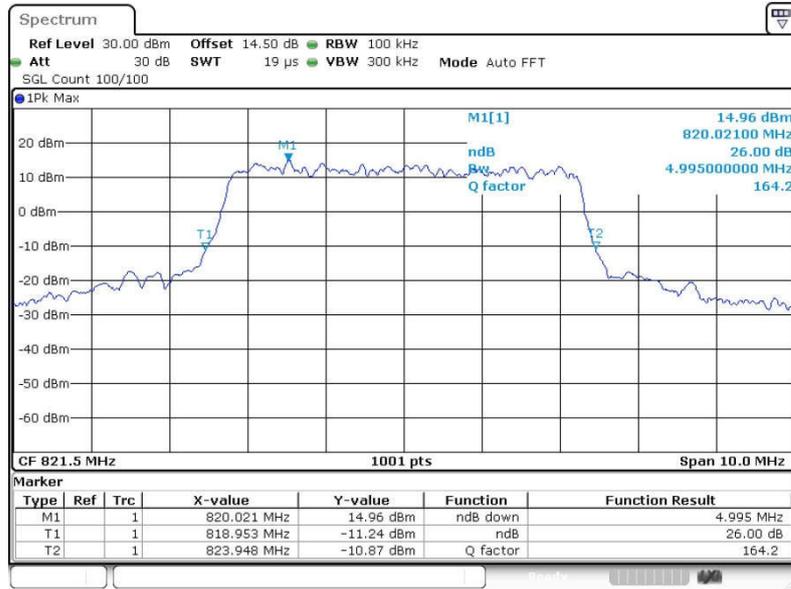
99% Occupied Bandwidth Plot on Channel 26765 for QPSK-RB  
Size 25, RB Offset 0



Date: 28.OCT.2015 08:23:49



26dB Bandwidth Plot on Channel 26765

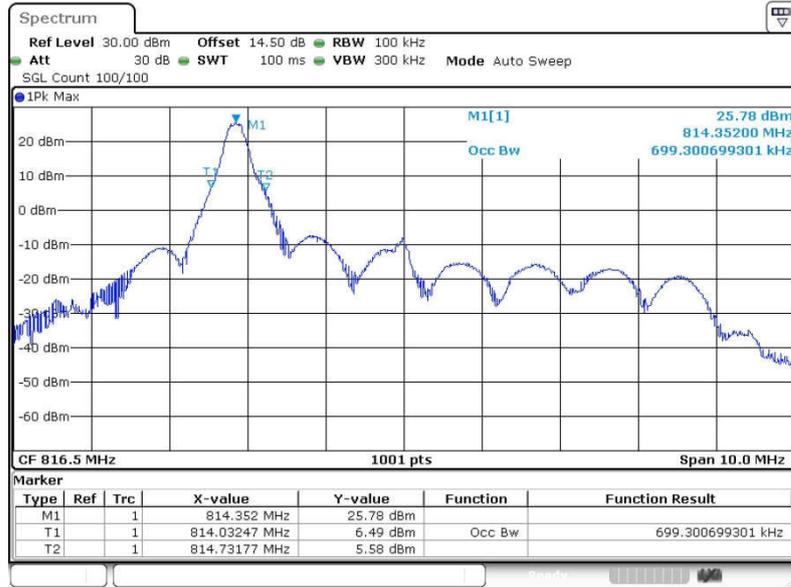


Date: 28.OCT.2015 08:24:15



<b>Band :</b>	LTE Band 26	<b>BW / Mod. :</b>	5MHz / 16QAM
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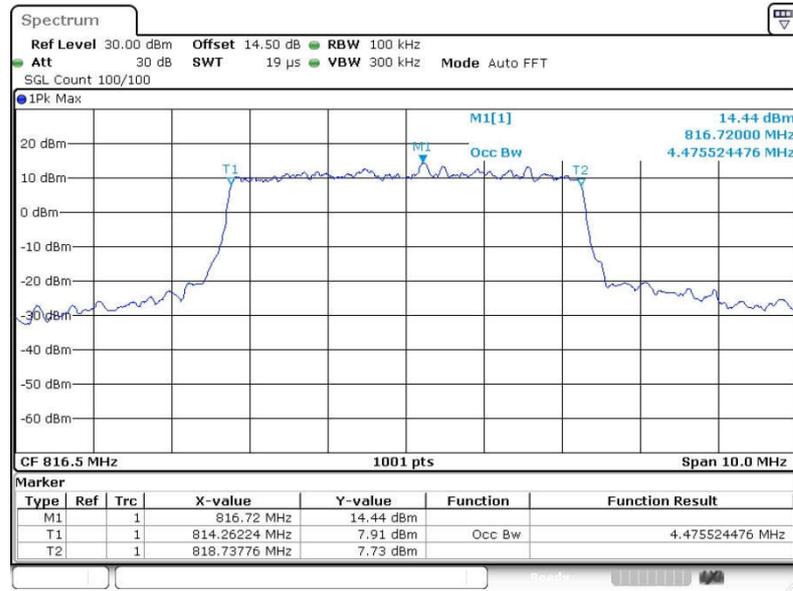
**99% Occupied Bandwidth Plot on Channel 26715 for  
16QAM-RB Size 1, RB Offset 0**



Date: 22.JAN.2016 01:51:14

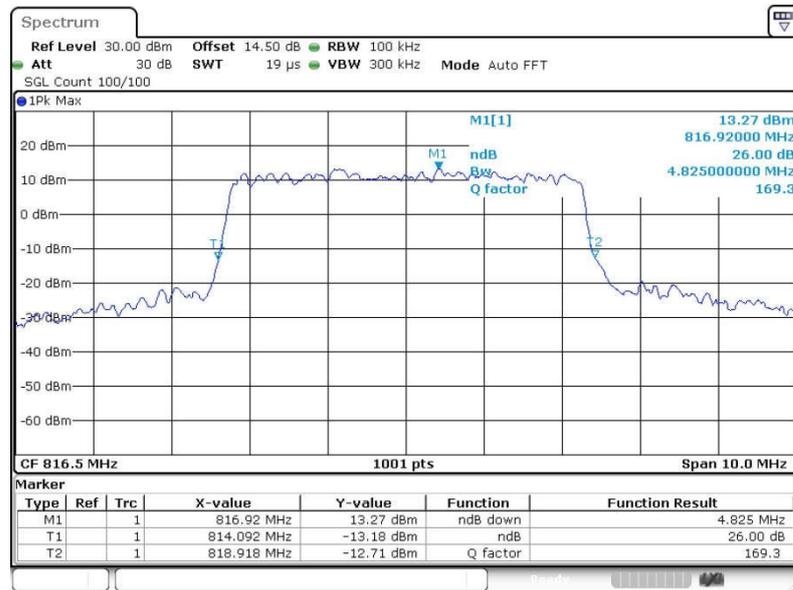


**99% Occupied Bandwidth Plot on Channel 26715 for  
16QAM-RB Size 25, RB Offset 0**



Date: 26.OCT.2015 08:18:44

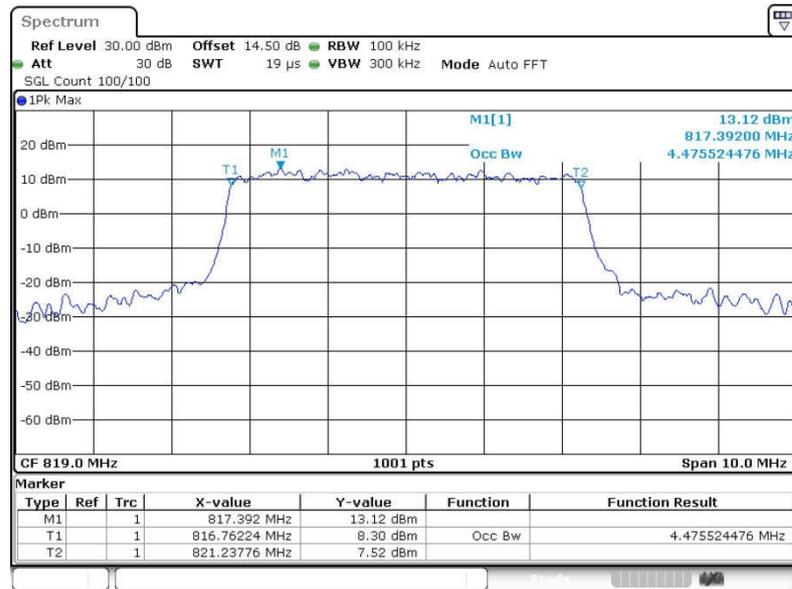
**26dB Bandwidth Plot on Channel 26715**



Date: 26.OCT.2015 08:19:05

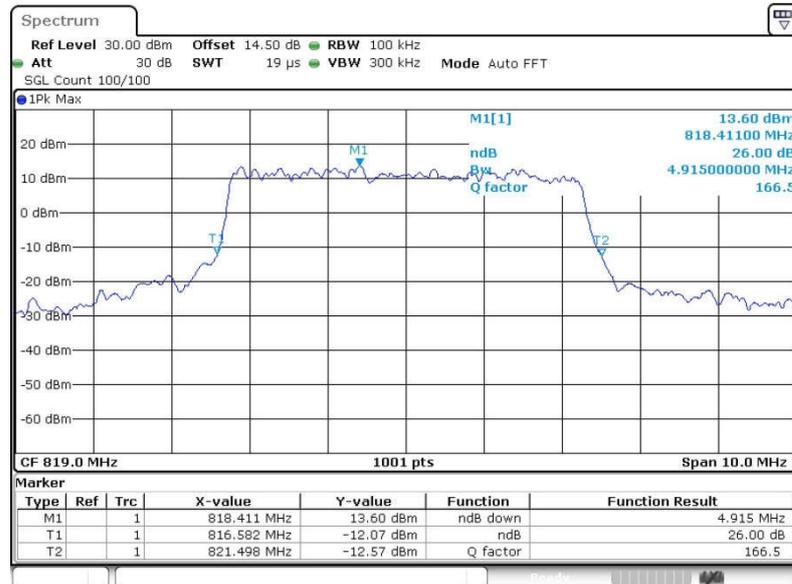


99% Occupied Bandwidth Plot on Channel 26740



Date: 26.OCT.2015 08:21:21

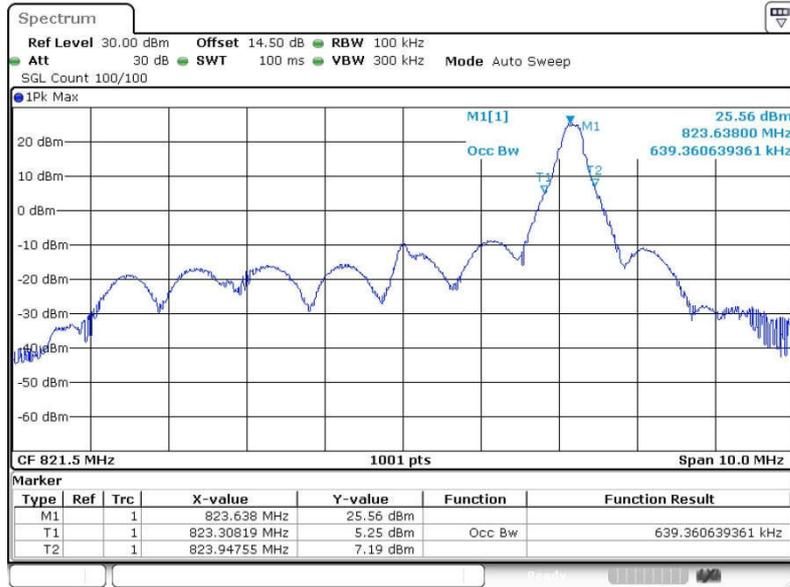
26dB Bandwidth Plot on Channel 26740



Date: 26.OCT.2015 08:21:42

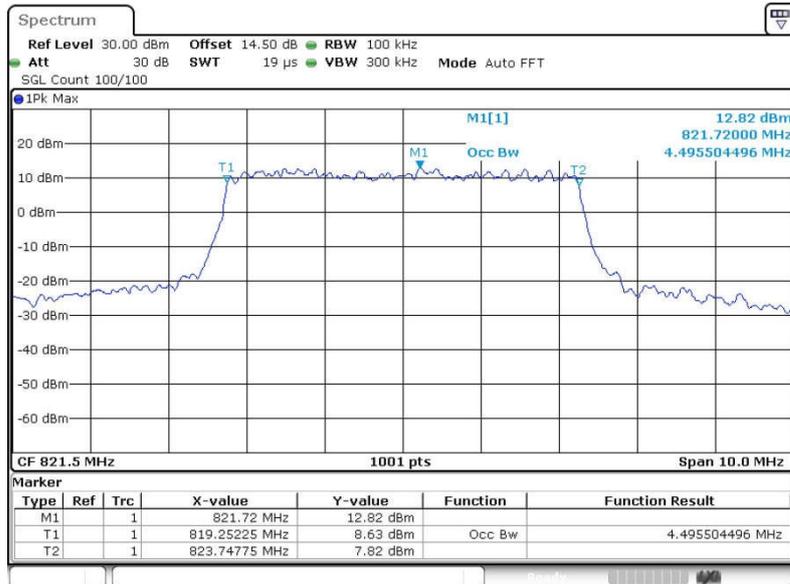


99% Occupied Bandwidth Plot on Channel 26765 for  
16QAM-RB Size 1, RB Offset 24



Date: 22.JAN.2016 01:53:12

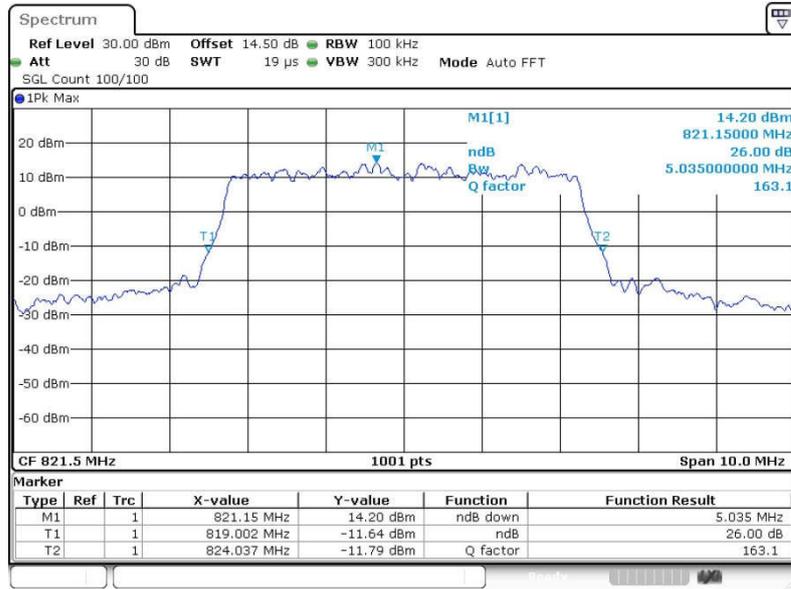
99% Occupied Bandwidth Plot on Channel 26765 for  
16QAM-RB Size 25, RB Offset 0



Date: 28.OCT.2015 08:24:03



26dB Bandwidth Plot on Channel 26765

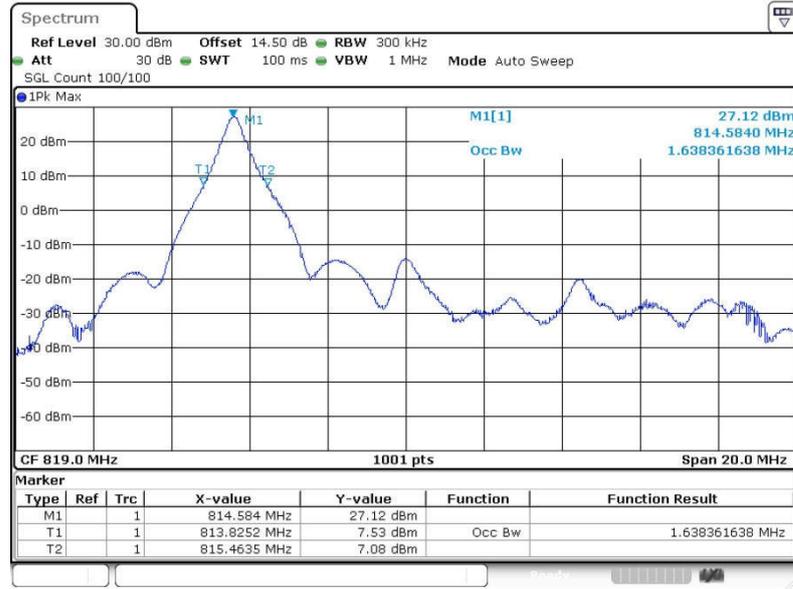


Date: 26.OCT.2015 08:24:26



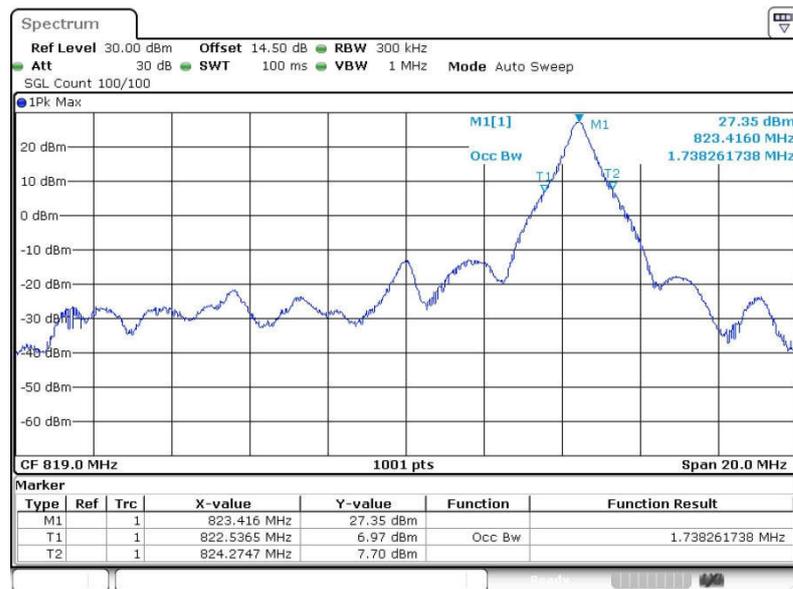
<b>Band :</b>	LTE Band 26	<b>BW / Mod. :</b>	10MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 26740 for QPSK-RB  
Size 1 RB Offset 0**



Date: 22.JAN.2016 01:30:27

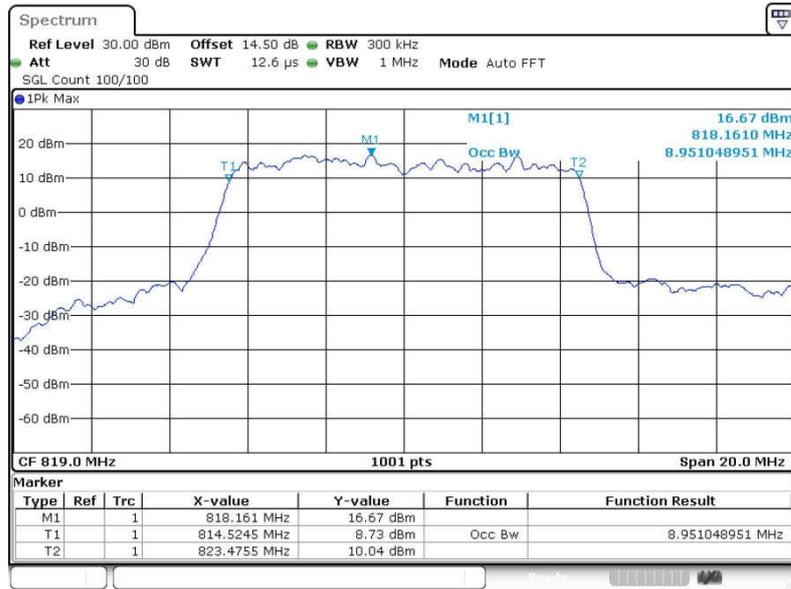
**99% Occupied Bandwidth Plot on Channel 26740 for QPSK-RB  
Size 1 RB Offset 49**



Date: 22.JAN.2016 01:42:25

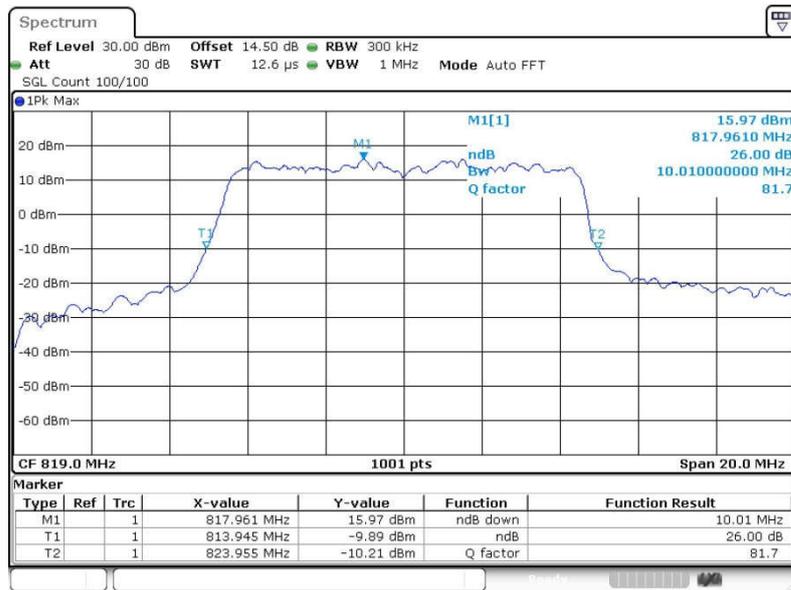


99% Occupied Bandwidth Plot on Channel 26740 for QPSK-RB  
Size 50 RB Offset 0



Date: 28.OCT.2015 08:26:32

26dB Bandwidth Plot on Channel 26740

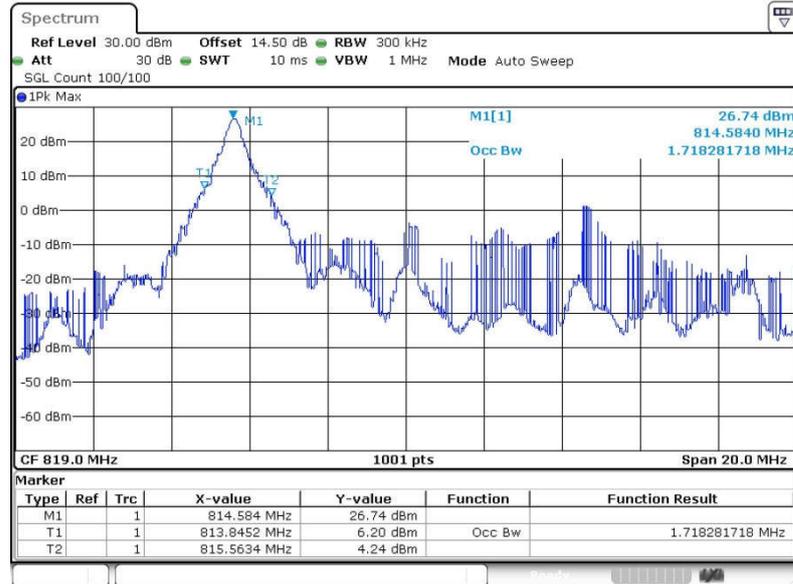


Date: 28.OCT.2015 08:26:54



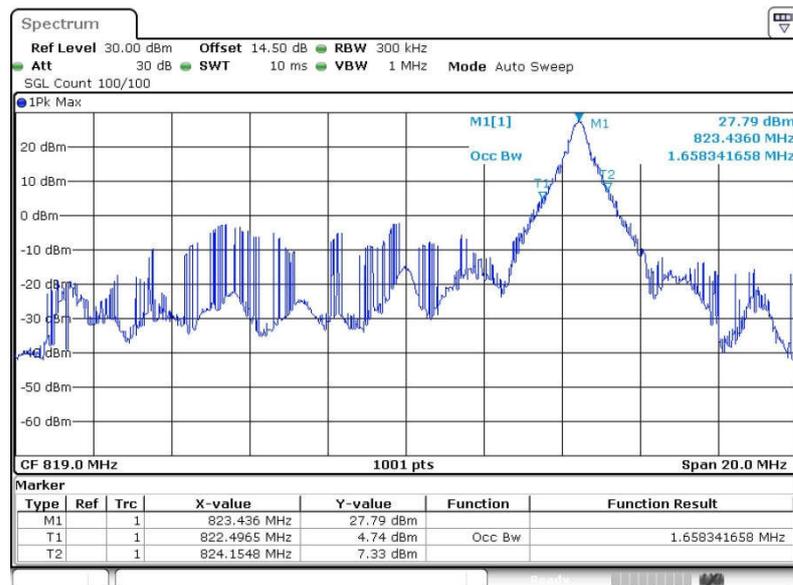
<b>Band :</b>	LTE Band 26	<b>BW / Mod. :</b>	10MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 26740 for  
16QAM-RB Size 1, RB Offset 0**



Date: 22.JAN.2016 01:41:21

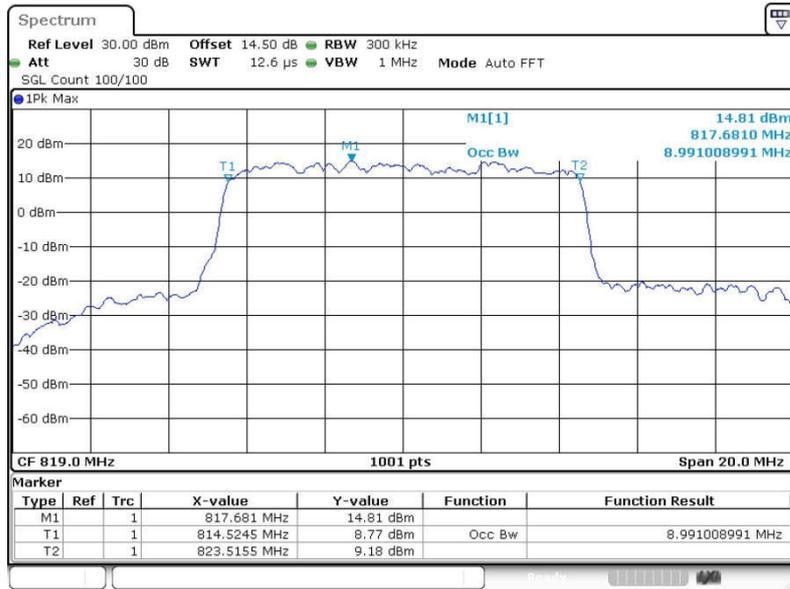
**99% Occupied Bandwidth Plot on Channel 26740 for  
16QAM-RB Size 1, RB Offset 49**



Date: 22.JAN.2016 01:43:35

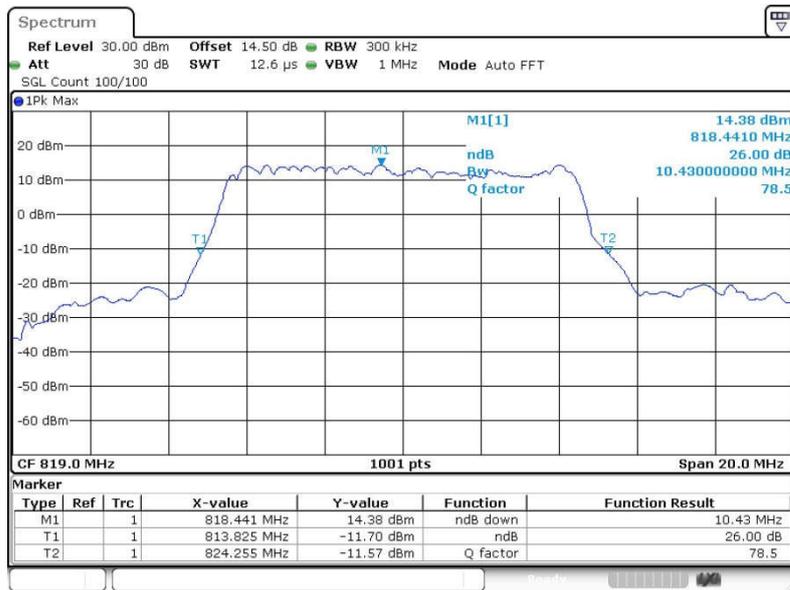


99% Occupied Bandwidth Plot on Channel 26740 for  
16QAM-RB Size 50, RB Offset 0



Date: 28.OCT.2015 08:26:43

26dB Bandwidth Plot on Channel 26740

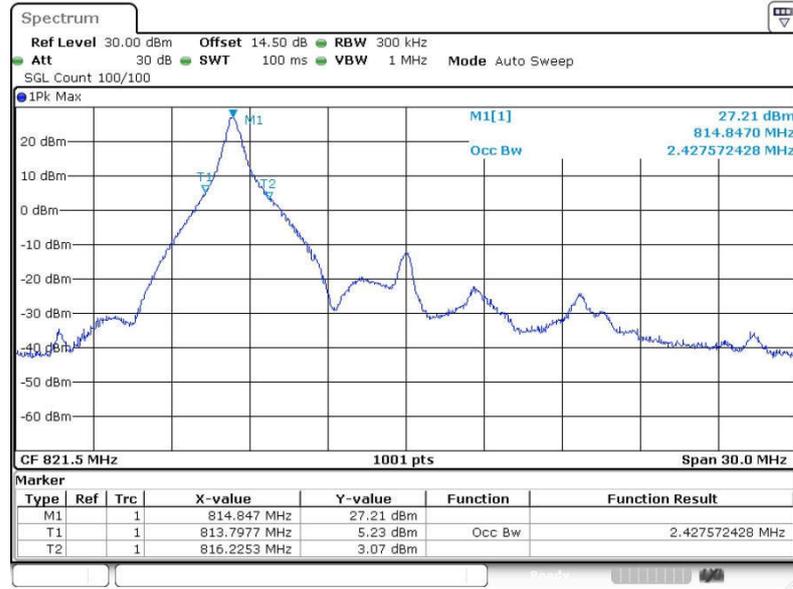


Date: 28.OCT.2015 08:27:05



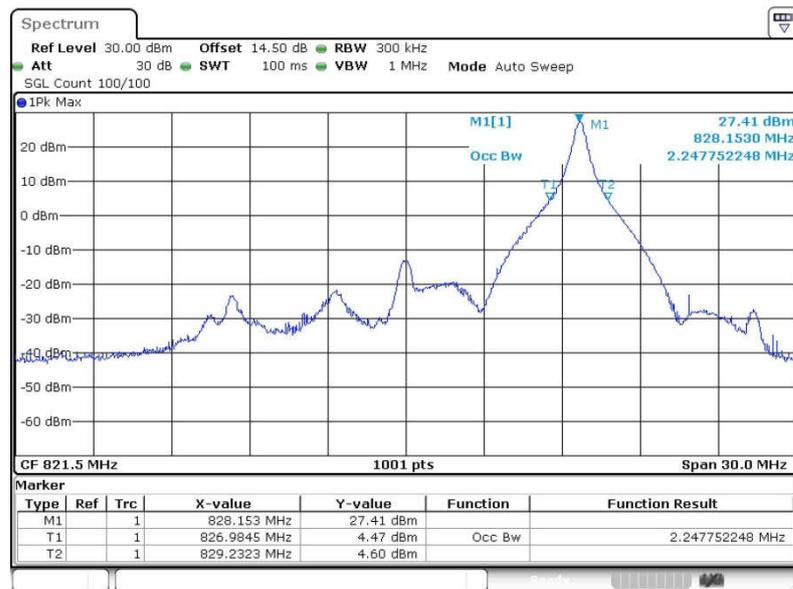
<b>Band :</b>	LTE Band 26	<b>BW / Mod. :</b>	15MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 26765 for QPSK-RB Size 1, RB Offset 0**



Date: 22.JAN.2016 01:25:30

**99% Occupied Bandwidth Plot on Channel 26765 for QPSK-RB Size 1, RB Offset 74**



Date: 22.JAN.2016 01:26:02