

# FCC RF Test Report

APPLICANT : ZTE CORPORATION  
EQUIPMENT : CDMA/LTE Multi-Mode Digital Mobile Phone  
BRAND NAME : ZTE  
MODEL NAME : ZTE N9101  
FCC ID : Q78-ZTEN9101  
STANDARD : 47 CFR Part 2, 22H, 24E, 27H, 27L  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Oct. 16, 2012 and completely tested on Mar. 22, 2013. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:



Jones Tsai / Manager



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



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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	NA	Conducted Output Power	NA	PASS	
3.1	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	ERP < 7 Watts (Band 5)	PASS	-
3.1	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	EIRP < 2 Watt (Band 2)	PASS	-
3.1	§27.50(c)(10) §27.50(d)(4)	RSS-139 (6.4) SRSP-513(5.1.2)	Effective Radiated Power and Equivalent Isotropic Radiated Power	ERP < 3 Watts (Band 12) EIRP < 1 Watt (Band 4)	PASS	-
3.2	§24.232(d) §27.50(d)(5)	RSS-133(6.4) RSS-139(6.4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.3	§2.1049 §22.917(a) §24.238(a) §27.53(g) (h)	N/A	Occupied Bandwidth	NA	PASS	-
3.4	§2.1051 §22.917(a) §24.238(a) §27.53(g)(h)	RSS-132 (4.5.1) RSS-133 (6.5.1) RSS-139 (6.5)	Conducted Band Edge Measurement	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
3.4	§2.1051 §22.917(a) §24.238(a) §27.53(g)(h)	RSS-132 (4.5.1) RSS-133 (6.5.1) RSS-139 (6.5)	Conducted Spurious Emission	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 18.44 dB at 10516.000 MHz
3.5	§2.1053 §22.917(a) §24.238(a) §27.53(g)(h)	RSS-132 (4.5.1) RSS-133 (6.5.1) RSS-139 (6.5)	Undesirable Out of Band Emissions	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
3.6	§2.1055 §22.355 §24.235 §27.54	RSS-132 (4.3) RSS-133 (6.3) RSS-139 (6.3)	Frequency Stability Temperature & Voltage	< 2.5 ppm	PASS	-



# **1 General Description**

## **1.1 Applicant**

**ZTE CORPORATION**

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

## **1.2 Manufacturer**

**ZTE CORPORATION**

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

### 1.3 Feature of Equipment Under Test

Product Feature	
Equipment	CDMA/LTE Multi-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	ZTE N9101
FCC ID	Q78-ZTEN9101
EUT supports Radios application	CDMA/EV-DO/LTE/WLAN 11bgn/Bluetooth EDR/Bluetooth 4.0 - LE
HW Version	czbC
SW Version	N9101V1.0.0B01
EUT Stage	Identical Prototype

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Product Specification subjective to this standard	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz (Band 2 and Band 4) 1.4MHz / 3MHz / 5MHz / 10MHz (Band 5 and Band 12)
Maximum Output Power to Antenna	LTE Band 2 : 21.91 dBm LTE Band 4 : 22.33 dBm LTE Band 5 : 24.97 dBm LTE Band 12 : 24.57 dBm
Antenna Type	PIFA Antenna
Type of Modulation	QPSK / 16QAM

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



## 1.4 Emission Designator and Maximum ERP/EIRP Power

FCC Rule	System	Type of Modulation	BW	Maximum EIRP (W)	Frequency Tolerance (% , Hz, ppm)	Emission Designator
Part 24E	LTE Band 2	QPSK	1.4MHz	0.2070 W	0.005 ppm	1M10G7D
Part 24E	LTE Band 2	16QAM	1.4MHz	0.1644 W	0.007 ppm	1M10D7W
Part 24E	LTE Band 2	QPSK	3MHz	0.1905 W	0.005 ppm	2M74G7D
Part 24E	LTE Band 2	16QAM	3MHz	0.1489 W	0.006 ppm	2M74D7W
Part 24E	LTE Band 2	QPSK	5MHz	0.1807 W	0.006 ppm	4M50G7D
Part 24E	LTE Band 2	16QAM	5MHz	0.1426 W	0.004 ppm	4M52D7W
Part 24E	LTE Band 2	QPSK	10MHz	0.1549 W	0.005 ppm	9M16G7D
Part 24E	LTE Band 2	16QAM	10MHz	0.1297 W	0.004 ppm	9M12D7W
Part 24E	LTE Band 2	QPSK	15MHz	0.1279 W	0.006 ppm	13M5G7D
Part 24E	LTE Band 2	16QAM	15MHz	0.0676 W	0.007 ppm	13M6D7W
Part 24E	LTE Band 2	QPSK	20MHz	0.1614 W	0.007 ppm	18M0G7D
Part 24E	LTE Band 2	16QAM	20MHz	0.0798 W	0.005 ppm	18M0D7W
Part 27L	LTE Band 4	QPSK	1.4MHz	0.1607 W	0.007 ppm	1M10G7D
Part 27L	LTE Band 4	16QAM	1.4MHz	0.1340 W	0.008 ppm	1M10D7W
Part 27L	LTE Band 4	QPSK	3MHz	0.1656 W	0.006 ppm	2M72G7D
Part 27L	LTE Band 4	16QAM	3MHz	0.1374 W	0.007 ppm	2M74D7W
Part 27L	LTE Band 4	QPSK	5MHz	0.1687 W	0.006 ppm	4M52G7D
Part 27L	LTE Band 4	16QAM	5MHz	0.1330 W	0.008 ppm	4M52D7W
Part 27L	LTE Band 4	QPSK	10MHz	0.1778 W	0.007 ppm	9M16G7D
Part 27L	LTE Band 4	16QAM	10MHz	0.1413 W	0.006 ppm	9M12D7W
Part 27L	LTE Band 4	QPSK	15MHz	0.1629 W	0.007 ppm	13M5G7D
Part 27L	LTE Band 4	16QAM	15MHz	0.1393 W	0.007 ppm	13M6D7W
Part 27L	LTE Band 4	QPSK	20MHz	0.1710 W	0.006 ppm	18M0G7D
Part 27L	LTE Band 4	16QAM	20MHz	0.1393 W	0.005 ppm	18M1D7W



FCC Rule	System	Type of Modulation	BW	Maximum ERP (W)	Frequency Tolerance (% , Hz, ppm)	Emission Designator
Part 22H	LTE Band 5	QPSK	1.4MHz	0.0331 W	0.300 ppm	1M10G7D
Part 22H	LTE Band 5	16QAM	1.4MHz	0.0248 W	0.012 ppm	1M10D7W
Part 22H	LTE Band 5	QPSK	3MHz	0.0321 W	0.010 ppm	2M74G7D
Part 22H	LTE Band 5	16QAM	3MHz	0.0260 W	0.005 ppm	2M72D7W
Part 22H	LTE Band 5	QPSK	5MHz	0.0356 W	0.014 ppm	4M48G7D
Part 22H	LTE Band 5	16QAM	5MHz	0.0309 W	0.005 ppm	4M48D7W
Part 22H	LTE Band 5	QPSK	10MHz	0.0354 W	0.009 ppm	9M12G7D
Part 22H	LTE Band 5	16QAM	10MHz	0.0258 W	0.006 ppm	9M08D7W
Part 27H	LTE Band 12	QPSK	1.4MHz	0.0402 W	0.015 ppm	1M10D7W
Part 27H	LTE Band 12	16QAM	1.4MHz	0.0331 W	0.015 ppm	1M10G7D
Part 27H	LTE Band 12	QPSK	3MHz	0.0455 W	0.018 ppm	2M74D7W
Part 27H	LTE Band 12	16QAM	3MHz	0.0367 W	0.016 ppm	2M72D7W
Part 27H	LTE Band 12	QPSK	5MHz	0.0547 W	0.016 ppm	4M50G7D
Part 27H	LTE Band 12	16QAM	5MHz	0.0482 W	0.014 ppm	4M52D7W
Part 27H	LTE Band 12	QPSK	10MHz	0.0321 W	0.017 ppm	9M16G7D
Part 27H	LTE Band 12	16QAM	10MHz	0.0272 W	0.017 ppm	9M08D7W

### 1.5 Testing Site

<b>Test Site</b>	SPORTON INTERNATIONAL INC.	
<b>Test Site Location</b>	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC/IC Registration No.</b>
	03CH07-HY	TW1022/4086B-1

<b>Test Site</b>	SPORTON INTERNATIONAL (KUNSHAN) INC.	
<b>Test Site Location</b>	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC/IC Registration No.</b>
	TH01-KS	149928/4086E-1



### 1.6 Applied Standards

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

- ♦ 47 CFR Part 2, 22H, 24E, 27H, 27L
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v01

**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.

### 1.7 Ancillary Equipment List

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.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m



## **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.

Frequency range investigated for radiated emission is as follows:

1. 30 MHz to 19000 MHz for LTE Band 2.
2. 30 MHz to 19000 MHz for LTE Band 4.
3. 30 MHz to 9000 MHz LTE Band 5.
4. 30 MHz to 9000 MHz LTE Band 12.



Test Modes			
Band		Radiated TCs	Conducted TCs
LTE Band 2	BW 1.4MHz	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 2) Link</li> <li>■ LTE (RB Size 1, RB Offset 5) Link</li> <li>■ LTE (RB Size 3, RB Offset 0) Link</li> <li>■ LTE (RB Size 3, RB Offset 1) Link</li> <li>■ LTE (RB Size 3, RB Offset 2) Link</li> <li>■ LTE (RB Size 6, RB Offset 0) Link</li> </ul>
	BW 3MHz	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 7) Link</li> <li>■ LTE (RB Size 1, RB Offset 14) Link</li> <li>■ LTE (RB Size 8, RB Offset 0) Link</li> <li>■ LTE (RB Size 8, RB Offset 4) Link</li> <li>■ LTE (RB Size 8, RB Offset 7) Link</li> <li>■ LTE (RB Size 15, RB Offset 0) Link</li> </ul>
	BW 5MHz	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 12) Link</li> <li>■ LTE (RB Size 1, RB Offset 24) Link</li> <li>■ LTE (RB Size 12, RB Offset 0) Link</li> <li>■ LTE (RB Size 12, RB Offset 6) Link</li> <li>■ LTE (RB Size 12, RB Offset 11) Link</li> <li>■ LTE (RB Size 25, RB Offset 0) Link</li> </ul>



LTE Band 2	BW 10MHz	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 24) Link</li> <li>■ LTE (RB Size 1, RB Offset 49) Link</li> <li>■ LTE (RB Size 25, RB Offset 0) Link</li> <li>■ LTE (RB Size 25, RB Offset 12) Link</li> <li>■ LTE (RB Size 25, RB Offset 24) Link</li> <li>■ LTE (RB Size 50, RB Offset 0) Link</li> </ul>
	BW 15MHz	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 37) Link</li> <li>■ LTE (RB Size 1, RB Offset 74) Link</li> <li>■ LTE (RB Size 36, RB Offset 0) Link</li> <li>■ LTE (RB Size 36, RB Offset 19) Link</li> <li>■ LTE (RB Size 36, RB Offset 39) Link</li> <li>■ LTE (RB Size 75, RB Offset 0) Link</li> </ul>
	BW 20MHz	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 49) Link</li> <li>■ LTE (RB Size 1, RB Offset 99) Link</li> <li>■ LTE (RB Size 50, RB Offset 0) Link</li> <li>■ LTE (RB Size 50, RB Offset 24) Link</li> <li>■ LTE (RB Size 50, RB Offset 49) Link</li> <li>■ LTE (RB Size 100, RB Offset 0) Link</li> </ul>



Test Modes		
Band	Radiated TCs	Conducted TCs
LTE Band 4	BW 1.4MHz ■ LTE (RB Size 1, RB Offset 0) QPSK Link	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 2) Link</li> <li>■ LTE (RB Size 1, RB Offset 5) Link</li> <li>■ LTE (RB Size 3, RB Offset 0) Link</li> <li>■ LTE (RB Size 3, RB Offset 1) Link</li> <li>■ LTE (RB Size 3, RB Offset 2) Link</li> <li>■ LTE (RB Size 6, RB Offset 0) Link</li> </ul>
	BW 3MHz ■ LTE (RB Size 1, RB Offset 0) QPSK Link	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 7) Link</li> <li>■ LTE (RB Size 1, RB Offset 14) Link</li> <li>■ LTE (RB Size 8, RB Offset 0) Link</li> <li>■ LTE (RB Size 8, RB Offset 4) Link</li> <li>■ LTE (RB Size 8, RB Offset 7) Link</li> <li>■ LTE (RB Size 15, RB Offset 0) Link</li> </ul>
	BW 5MHz ■ LTE (RB Size 1, RB Offset 0) QPSK Link	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 12) Link</li> <li>■ LTE (RB Size 1, RB Offset 24) Link</li> <li>■ LTE (RB Size 12, RB Offset 0) Link</li> <li>■ LTE (RB Size 12, RB Offset 6) Link</li> <li>■ LTE (RB Size 12, RB Offset 11) Link</li> <li>■ LTE (RB Size 25, RB Offset 0) Link</li> </ul>
	BW 10MHz ■ LTE (RB Size 1, RB Offset 0) QPSK Link	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 24) Link</li> <li>■ LTE (RB Size 1, RB Offset 49) Link</li> <li>■ LTE (RB Size 25, RB Offset 0) Link</li> <li>■ LTE (RB Size 25, RB Offset 12) Link</li> <li>■ LTE (RB Size 25, RB Offset 24) Link</li> <li>■ LTE (RB Size 50, RB Offset 0) Link</li> </ul>
	BW 15MHz ■ LTE (RB Size 1, RB Offset 0) QPSK Link	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 37) Link</li> <li>■ LTE (RB Size 1, RB Offset 74) Link</li> <li>■ LTE (RB Size 36, RB Offset 0) Link</li> <li>■ LTE (RB Size 36, RB Offset 19) Link</li> <li>■ LTE (RB Size 36, RB Offset 39) Link</li> <li>■ LTE (RB Size 75, RB Offset 0) Link</li> </ul>



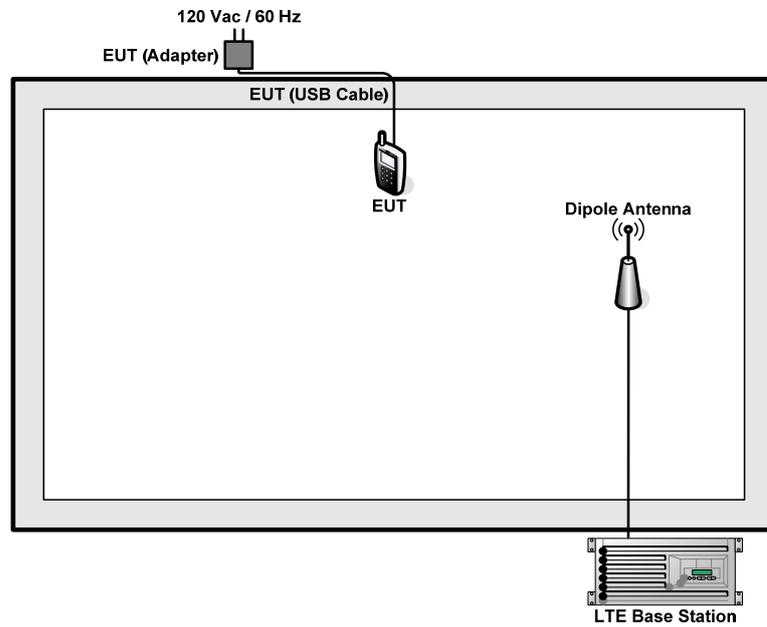
LTE Band 4	BW 20MHz	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 49) Link</li> <li>■ LTE (RB Size 1, RB Offset 99) Link</li> <li>■ LTE (RB Size 50, RB Offset 0) Link</li> <li>■ LTE (RB Size 50, RB Offset 24) Link</li> <li>■ LTE (RB Size 50, RB Offset 49) Link</li> <li>■ LTE (RB Size 100, RB Offset 0) Link</li> </ul>
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Test Modes			
Band		Radiated TCs	Conducted TCs
LTE Band 5	BW 1.4MHz	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 2) Link</li> <li>■ LTE (RB Size 1, RB Offset 5) Link</li> <li>■ LTE (RB Size 3, RB Offset 0) Link</li> <li>■ LTE (RB Size 3, RB Offset 1) Link</li> <li>■ LTE (RB Size 3, RB Offset 2) Link</li> <li>■ LTE (RB Size 6, RB Offset 0) Link</li> </ul>
	BW 3MHz	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 7) Link</li> <li>■ LTE (RB Size 1, RB Offset 14) Link</li> <li>■ LTE (RB Size 8, RB Offset 0) Link</li> <li>■ LTE (RB Size 8, RB Offset 4) Link</li> <li>■ LTE (RB Size 8, RB Offset 7) Link</li> <li>■ LTE (RB Size 15, RB Offset 0) Link</li> </ul>
	BW 5MHz	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 12) Link</li> <li>■ LTE (RB Size 1, RB Offset 24) Link</li> <li>■ LTE (RB Size 12, RB Offset 0) Link</li> <li>■ LTE (RB Size 12, RB Offset 6) Link</li> <li>■ LTE (RB Size 11, RB Offset 11) Link</li> <li>■ LTE (RB Size 25, RB Offset 0) Link</li> </ul>
	BW 10MHz	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 24) Link</li> <li>■ LTE (RB Size 1, RB Offset 49) Link</li> <li>■ LTE (RB Size 25, RB Offset 0) Link</li> <li>■ LTE (RB Size 25, RB Offset 12) Link</li> <li>■ LTE (RB Size 25, RB Offset 24) Link</li> <li>■ LTE (RB Size 50, RB Offset 0) Link</li> </ul>



<b>LTE</b> <b>Band 12</b>	<b>BW</b> <b>1.4MHz</b>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 2) Link</li> <li>■ LTE (RB Size 1, RB Offset 5) Link</li> <li>■ LTE (RB Size 3, RB Offset 0) Link</li> <li>■ LTE (RB Size 3, RB Offset 1) Link</li> <li>■ LTE (RB Size 3, RB Offset 2) Link</li> <li>■ LTE (RB Size 6, RB Offset 0) Link</li> </ul>
	<b>BW</b> <b>3MHz</b>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 7) Link</li> <li>■ LTE (RB Size 1, RB Offset 14) Link</li> <li>■ LTE (RB Size 8, RB Offset 0) Link</li> <li>■ LTE (RB Size 8, RB Offset 4) Link</li> <li>■ LTE (RB Size 8, RB Offset 7) Link</li> <li>■ LTE (RB Size 15, RB Offset 0) Link</li> </ul>
	<b>BW</b> <b>5MHz</b>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 12) Link</li> <li>■ LTE (RB Size 1, RB Offset 24) Link</li> <li>■ LTE (RB Size 12, RB Offset 0) Link</li> <li>■ LTE (RB Size 12, RB Offset 6) Link</li> <li>■ LTE (RB Size 12, RB Offset 11) Link</li> <li>■ LTE (RB Size 25, RB Offset 0) Link</li> </ul>
	<b>BW</b> <b>10MHz</b>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 24) Link</li> <li>■ LTE (RB Size 1, RB Offset 49) Link</li> <li>■ LTE (RB Size 25, RB Offset 0) Link</li> <li>■ LTE (RB Size 25, RB Offset 12) Link</li> <li>■ LTE (RB Size 25, RB Offset 24) Link</li> <li>■ LTE (RB Size 50, RB Offset 0) Link</li> </ul>

## 2.2 Connection Diagram of Test System



### 3 Test Result

#### 3.1 Conducted Output Power Measurement

##### 3.1.1 Maximum Output Power and Effective Radiated Power/ Effective Isotropic Radiated Power Measurement

Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v01. Mobile and portable (hand-held) stations operating are limited to average ERP of 7 watt with band 5 and 3 watt with band 12.

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004. Mobile and portable (hand-held) stations operating in each channel are limited to average EIRP of 2 watts with band 2 and 1 watt with band 4.

##### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

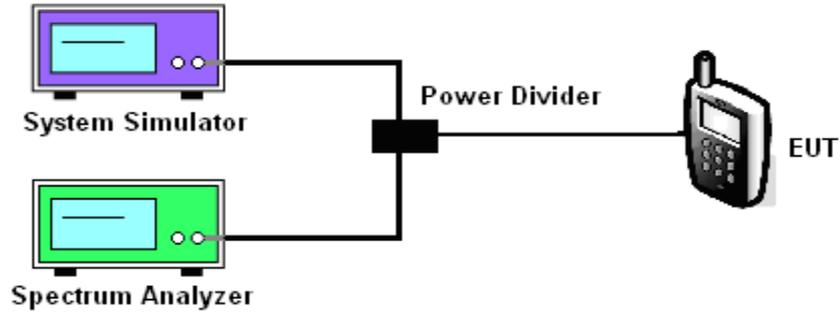
##### 3.1.3 Test Procedures

###### For Conducted Power Measurement:

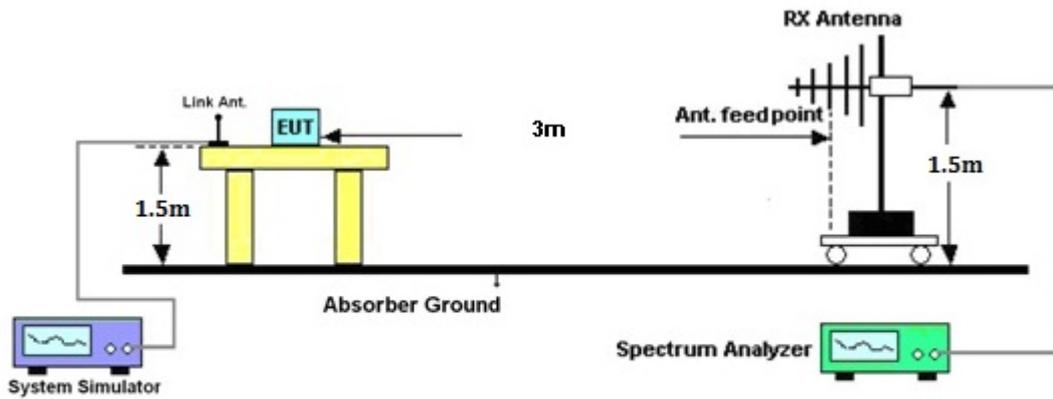
1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;  
UMTS operating modes: Set RBW= 100 KHz, VBW= 300 KHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per section 4.0 of KDB 971168 D01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10.  $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$   
 $P_s$  (dBm) : Input power to substitution antenna.  
 $G_s$  (dBi or dBd) : Substitution antenna Gain.  
 $E_t = R_t + AF$   
 $E_s = R_s + AF$   
 $AF$  (dB/m) : Receive antenna factor  
 $R_t$  : The highest received signal in spectrum analyzer for EUT.  
 $R_s$  : The highest received signal in spectrum analyzer for substitution antenna.

### 3.1.4 Test Setup

#### <Conducted Power and Band Edge Measurement>



#### <Effective Radiated Power and Effective Isotropic Radiated Power Measurement>





3.1.5 Test Result of Conducted Output Power

Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)	
					RB Size	RB Offset			
LTE Band 2	1.4MHz	18607	1850.7	QPSK	1	0	21.77	0.1503	
					1	2	21.73	0.1489	
					1	5	21.75	0.1496	
					3	0	21.75	0.1496	
					3	1	21.72	0.1486	
					3	2	21.70	0.1479	
		16-QAM	6	0	20.72	0.1180			
			1	0	20.81	0.1205			
			1	2	20.70	0.1175			
			1	5	20.80	0.1202			
			3	0	20.71	0.1178			
			3	1	20.75	0.1189			
		18900	1880.0	QPSK	QPSK	3	2	20.73	0.1183
						6	0	19.90	0.0977
						1	0	21.75	0.1496
						1	2	21.66	0.1466
						1	5	21.67	0.1469
						3	0	21.72	0.1486
	16-QAM		3	1	21.74	0.1493			
			3	2	21.71	0.1483			
			6	0	20.74	0.1186			
			1	0	20.76	0.1191			
			1	2	20.63	0.1156			
			1	5	20.65	0.1161			
	19193	1909.3	QPSK	QPSK	3	0	20.69	0.1172	
					3	1	20.65	0.1161	
					3	2	20.75	0.1189	
					6	0	19.77	0.0948	
					1	0	21.66	0.1466	
					1	2	21.65	0.1462	
16-QAM		1	5	21.58	0.1439				
		3	0	21.62	0.1452				
		3	1	21.62	0.1452				
		3	2	21.59	0.1442				
		6	0	20.65	0.1161				
		1	0	20.86	0.1219				
19193	1909.3	16-QAM	16-QAM	1	2	20.62	0.1153		
				1	5	20.65	0.1161		
				3	0	20.61	0.1151		
				3	1	20.54	0.1132		
				3	2	20.61	0.1151		
				6	0	19.60	0.0912		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 2	3MHz	18615	1851.5	QPSK	1	0	21.87	0.1538
					1	7	21.62	0.1452
					1	14	21.83	0.1524
					8	0	20.60	0.1148
					8	4	20.66	0.1164
					8	7	20.66	0.1164
				15	0	20.57	0.1140	
				16-QAM	1	0	20.85	0.1216
					1	7	20.70	0.1175
		1	14		20.69	0.1172		
		8	0		19.59	0.0910		
		8	4		19.60	0.0912		
		8	7		19.52	0.0895		
		18900	1880.0	QPSK	1	0	21.80	0.1514
					1	7	21.78	0.1507
					1	14	21.72	0.1486
					8	0	20.74	0.1186
					8	4	20.79	0.1199
	8				7	20.79	0.1199	
	15			0	20.68	0.1169		
	16-QAM			1	0	20.64	0.1159	
				1	7	20.50	0.1122	
		1	14	20.51	0.1125			
		8	0	19.83	0.0962			
		8	4	19.84	0.0964			
		8	7	19.80	0.0955			
	19185	1908.5	QPSK	1	0	21.66	0.1466	
				1	7	21.63	0.1455	
				1	14	21.65	0.1462	
				8	0	20.69	0.1172	
8				4	20.73	0.1183		
8				7	20.78	0.1197		
15			0	20.71	0.1178			
16-QAM			1	0	20.88	0.1225		
			1	7	20.72	0.1180		
			1	14	20.76	0.1191		
			8	0	19.66	0.0925		
			8	4	19.63	0.0918		
	8	7	19.78	0.0951				
				15	0	19.74	0.0942	





Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 2	10MHz	18650	1855.0	QPSK	1	0	21.75	0.1496
					1	24	21.58	0.1439
					1	49	21.62	0.1452
					25	0	20.47	0.1114
					25	12	20.41	0.1099
					25	24	20.51	0.1125
					50	0	20.27	0.1064
				16-QAM	1	0	20.97	0.1250
					1	24	20.59	0.1146
					1	49	20.85	0.1216
					25	0	19.35	0.0861
					25	12	19.32	0.0855
					25	24	19.50	0.0891
					50	0	19.30	0.0851
		18900	1880.0	QPSK	1	0	21.91	0.1552
					1	24	21.78	0.1507
					1	49	21.79	0.1510
					25	0	20.43	0.1104
					25	12	20.51	0.1125
					25	24	20.51	0.1125
					50	0	20.36	0.1086
				16-QAM	1	0	20.88	0.1225
					1	24	20.61	0.1151
					1	49	20.76	0.1191
					25	0	19.41	0.0873
					25	12	19.54	0.0899
					25	24	19.44	0.0879
					50	0	19.33	0.0857
		19150	1905.0	QPSK	1	0	21.78	0.1507
					1	24	21.65	0.1462
1	49				21.77	0.1503		
25	0				20.43	0.1104		
25	12				20.47	0.1114		
25	24				20.60	0.1148		
50	0				20.35	0.1084		
16-QAM	1			0	20.98	0.1253		
	1			24	20.95	0.1245		
	1			49	20.88	0.1225		
	25			0	19.35	0.0861		
	25			12	19.51	0.0893		
	25			24	19.63	0.0918		
	50			0	19.37	0.0865		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 2	15MHz	18675	1857.5	QPSK	1	0	21.87	0.1538
					1	37	21.85	0.1531
					1	74	21.66	0.1466
					36	0	20.54	0.1132
					36	19	20.60	0.1148
					36	39	20.60	0.1148
		16-QAM	75	0	20.46	0.1112		
			1	0	20.93	0.1239		
			1	37	20.74	0.1186		
			1	74	20.53	0.1130		
			36	0	19.81	0.0957		
			36	19	19.64	0.0920		
		QPSK	36	39	19.84	0.0964		
			75	0	19.39	0.0869		
			1	0	21.87	0.1538		
			1	37	21.76	0.1500		
			1	74	21.81	0.1517		
			36	0	20.62	0.1153		
	16-QAM	36	19	20.64	0.1159			
		36	39	20.73	0.1183			
		75	0	20.38	0.1091			
		1	0	20.94	0.1242			
		1	37	20.93	0.1239			
		1	74	20.64	0.1159			
	QPSK	36	0	19.78	0.0951			
		36	19	19.69	0.0931			
		36	39	19.78	0.0951			
		75	0	19.44	0.0879			
		1	0	21.82	0.1521			
		1	37	21.56	0.1432			
16-QAM	1	74	21.69	0.1476				
	36	0	20.56	0.1138				
	36	19	20.55	0.1135				
	36	39	20.52	0.1127				
	75	0	20.63	0.1156				
	QPSK	1	0	20.87	0.1222			
1		37	20.64	0.1159				
1		74	20.86	0.1219				
36		0	19.71	0.0935				
36		19	19.61	0.0914				
36		39	19.67	0.0927				
16-QAM	75	0	19.63	0.0918				
	1	0	21.87	0.1538				
	1	37	21.76	0.1500				
	1	74	21.81	0.1517				
	36	0	20.62	0.1153				
	36	19	20.64	0.1159				
QPSK	36	39	20.73	0.1183				
	75	0	20.38	0.1091				
	1	0	20.94	0.1242				
	1	37	20.93	0.1239				
	1	74	20.64	0.1159				
	36	0	19.78	0.0951				
16-QAM	36	19	19.69	0.0931				
	36	39	19.78	0.0951				
	75	0	19.44	0.0879				
	1	0	21.82	0.1521				
	1	37	21.56	0.1432				
	1	74	21.69	0.1476				
QPSK	36	0	20.56	0.1138				
	36	19	20.55	0.1135				
	36	39	20.52	0.1127				
	75	0	20.63	0.1156				
	1	0	20.87	0.1222				
	1	37	20.64	0.1159				
16-QAM	1	74	20.86	0.1219				
	36	0	19.71	0.0935				
	36	19	19.61	0.0914				
	36	39	19.67	0.0927				
	75	0	19.63	0.0918				
	1	0	21.87	0.1538				



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 2	20MHz	18700	1860.0	QPSK	1	0	21.86	0.1535
					1	49	21.76	0.1500
					1	99	21.59	0.1442
					50	0	20.39	0.1094
					50	24	20.42	0.1102
					50	49	20.41	0.1099
				16-QAM	100	0	20.45	0.1109
					1	0	20.94	0.1242
					1	49	20.71	0.1178
					1	99	20.92	0.1236
					50	0	19.30	0.0851
					50	24	19.36	0.0863
		18900	1880.0	QPSK	50	49	19.39	0.0869
					100	0	19.38	0.0867
					1	0	21.90	0.1549
					1	49	21.87	0.1538
					1	99	21.89	0.1545
					50	0	20.45	0.1109
				16-QAM	50	24	20.32	0.1076
					50	49	20.36	0.1086
					100	0	20.43	0.1104
					1	0	20.95	0.1245
					1	49	20.60	0.1148
					1	99	20.76	0.1191
		19100	1900.0	QPSK	50	0	19.37	0.0865
					50	24	19.29	0.0849
					50	49	19.38	0.0867
					100	0	19.45	0.0881
					1	0	21.88	0.1542
					1	49	21.59	0.1442
16-QAM	1			99	21.58	0.1439		
	50			0	20.37	0.1089		
	50			24	20.26	0.1062		
	50			49	20.32	0.1076		
	100			0	20.36	0.1086		
	1			0	20.87	0.1222		
16-QAM	1	49	20.83	0.1211				
	1	99	20.81	0.1205				
	50	0	19.30	0.0851				
	50	24	19.27	0.0845				
	50	49	19.34	0.0859				
	100	0	19.35	0.0861				



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)	
					RB Size	RB Offset			
LTE Band 4	1.4MHz	19957	1710.7	QPSK	1	0	22.18	0.1652	
					1	2	22.16	0.1644	
					1	5	22.15	0.1641	
					3	0	22.08	0.1614	
					3	1	22.12	0.1629	
					3	2	22.11	0.1626	
		16-QAM	6	0	21.24	0.1330			
			1	0	21.22	0.1324			
			1	2	21.08	0.1282			
			1	5	21.03	0.1268			
			3	0	21.15	0.1303			
			3	1	21.07	0.1279			
		20175	1732.5	QPSK	QPSK	3	2	21.07	0.1279
						6	0	19.98	0.0995
						1	0	22.28	0.1690
						1	2	22.04	0.1600
						1	5	22.20	0.1660
						3	0	21.96	0.1570
	16-QAM		3	1	21.99	0.1581			
			3	2	21.95	0.1567			
			6	0	21.00	0.1259			
			1	0	21.19	0.1315			
			1	2	20.95	0.1245			
			1	5	20.90	0.1230			
	20393	1754.3	QPSK	QPSK	3	0	21.04	0.1271	
					3	1	21.04	0.1271	
					3	2	20.83	0.1211	
					6	0	20.10	0.1023	
					1	0	22.33	0.1710	
					1	2	22.12	0.1629	
16-QAM		1	5	21.98	0.1578				
		3	0	21.99	0.1581				
		3	1	22.02	0.1592				
		3	2	22.01	0.1589				
		6	0	21.04	0.1271				
		1	0	21.13	0.1297				
16-QAM	1	2	21.10	0.1288					
	1	5	20.87	0.1222					
	3	0	21.05	0.1274					
	3	1	21.08	0.1282					
	3	2	20.99	0.1256					
	6	0	19.99	0.0998					



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 4	3MHz	19965	1711.5	QPSK	1	0	22.05	0.1603
					1	7	22.00	0.1585
					1	14	22.02	0.1592
					8	0	21.01	0.1262
					8	4	21.13	0.1297
					8	7	21.04	0.1271
		16-QAM	15	0	20.84	0.1213		
			1	0	21.18	0.1312		
			1	7	21.01	0.1262		
			1	14	21.15	0.1303		
			8	0	20.05	0.1012		
			8	4	20.08	0.1019		
		QPSK	8	7	20.14	0.1033		
			15	0	19.85	0.0966		
			1	0	22.03	0.1596		
			1	7	21.95	0.1567		
			1	14	21.98	0.1578		
			8	0	20.96	0.1247		
	16-QAM	8	4	20.91	0.1233			
		8	7	20.96	0.1247			
		15	0	20.77	0.1194			
		1	0	21.25	0.1334			
		1	7	20.93	0.1239			
		1	14	21.21	0.1321			
	QPSK	8	0	19.97	0.0993			
		8	4	19.93	0.0984			
		8	7	20.07	0.1016			
		15	0	19.74	0.0942			
		1	0	22.13	0.1633			
		1	7	21.97	0.1574			
	16-QAM	1	14	21.99	0.1581			
		8	0	20.91	0.1233			
		8	4	20.97	0.1250			
		8	7	20.99	0.1256			
		15	0	20.74	0.1186			
		1	0	21.12	0.1294			
QPSK	1	7	20.51	0.1125				
	1	14	21.10	0.1288				
	8	0	20.04	0.1009				
	8	4	20.09	0.1021				
	8	7	20.04	0.1009				
	15	0	19.84	0.0964				



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 4	5MHz	19975	1712.5	QPSK	1	0	22.01	0.1589
					1	12	22.00	0.1585
					1	24	21.92	0.1556
					12	0	21.01	0.1262
					12	6	21.07	0.1279
					12	11	21.00	0.1259
					25	0	20.83	0.1211
				16-QAM	1	0	21.38	0.1374
					1	12	21.32	0.1355
					1	24	21.14	0.1300
					12	0	19.96	0.0991
					12	6	19.98	0.0995
					12	11	20.09	0.1021
					25	0	19.74	0.0942
		20175	1732.5	QPSK	1	0	22.23	0.1671
					1	12	22.20	0.1660
					1	24	21.91	0.1552
					12	0	20.90	0.1230
					12	6	20.90	0.1230
					12	11	20.94	0.1242
					25	0	20.64	0.1159
				16-QAM	1	0	21.05	0.1274
					1	12	20.95	0.1245
					1	24	20.88	0.1225
					12	0	19.99	0.0998
					12	6	20.11	0.1026
					12	11	20.05	0.1012
					25	0	19.67	0.0927
		20375	1752.5	QPSK	1	0	22.25	0.1679
					1	12	22.02	0.1592
1	24				21.84	0.1528		
12	0				20.88	0.1225		
12	6				20.93	0.1239		
12	11				20.96	0.1247		
25	0				20.73	0.1183		
16-QAM	1			0	21.13	0.1297		
	1			12	21.03	0.1268		
	1			24	20.83	0.1211		
	12			0	19.99	0.0998		
	12			6	19.96	0.0991		
	12			11	20.13	0.1030		
	25			0	19.72	0.0938		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 4	10MHz	20000	1715.0	QPSK	1	0	22.04	0.1600
					1	24	21.94	0.1563
					1	49	21.88	0.1542
					25	0	20.80	0.1202
					25	12	20.82	0.1208
					25	24	20.77	0.1194
		16-QAM	50	0	20.53	0.1130		
			1	0	20.98	0.1253		
			1	24	20.84	0.1213		
			1	49	20.92	0.1236		
			25	0	19.81	0.0957		
			25	12	19.75	0.0944		
		QPSK	25	24	19.64	0.0920		
			50	0	19.50	0.0891		
			1	0	22.05	0.1603		
			1	24	21.81	0.1517		
			1	49	21.96	0.1570		
			25	0	20.82	0.1208		
	16-QAM	25	12	20.75	0.1189			
		25	24	20.68	0.1169			
		50	0	20.49	0.1119			
		1	0	21.27	0.1340			
		1	24	21.25	0.1334			
		1	49	20.89	0.1227			
	QPSK	25	0	19.84	0.0964			
		25	12	19.65	0.0923			
		25	24	19.65	0.0923			
		50	0	19.56	0.0904			
		1	0	21.99	0.1581			
		1	24	21.96	0.1570			
16-QAM	1	49	21.93	0.1560				
	25	0	20.68	0.1169				
	25	12	20.76	0.1191				
	25	24	20.76	0.1191				
	50	0	20.57	0.1140				
	1	0	20.78	0.1197				
QPSK	1	24	20.69	0.1172				
	1	49	20.75	0.1189				
	25	0	19.73	0.0940				
	25	12	19.74	0.0942				
	25	24	19.69	0.0931				
	50	0	19.51	0.0893				



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 4	15MHz	20025	1717.5	QPSK	1	0	22.16	0.1644
					1	37	21.96	0.1570
					1	74	22.15	0.1641
					36	0	20.94	0.1242
					36	19	20.89	0.1227
					36	39	20.79	0.1199
					75	0	20.66	0.1164
				16-QAM	1	0	21.32	0.1355
					1	37	20.83	0.1211
					1	74	20.95	0.1245
					36	0	19.88	0.0973
					36	19	19.85	0.0966
					36	39	19.87	0.0971
					75	0	19.80	0.0955
		20175	1732.5	QPSK	1	0	22.13	0.1633
					1	37	22.12	0.1629
					1	74	21.90	0.1549
					36	0	20.86	0.1219
					36	19	20.89	0.1227
					36	39	20.76	0.1191
					75	0	20.62	0.1153
				16-QAM	1	0	21.19	0.1315
					1	37	20.93	0.1239
					1	74	20.76	0.1191
					36	0	19.92	0.0982
					36	19	19.96	0.0991
					36	39	19.77	0.0948
					75	0	19.58	0.0908
		20325	1747.5	QPSK	1	0	22.19	0.1656
					1	37	21.98	0.1578
1	74				21.95	0.1567		
36	0				20.86	0.1219		
36	19				20.82	0.1208		
36	39				20.92	0.1236		
75	0				20.57	0.1140		
16-QAM	1			0	21.14	0.1300		
	1			37	20.83	0.1211		
	1			74	21.13	0.1297		
	36			0	19.88	0.0973		
	36			19	19.85	0.0966		
	36			39	19.89	0.0975		
	75			0	19.57	0.0906		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)	
					RB Size	RB Offset			
LTE Band 4	20MHz	20050	1720.0	QPSK	1	0	22.15	0.1641	
					1	49	21.98	0.1578	
					1	99	22.10	0.1622	
					50	0	20.62	0.1153	
					50	24	20.60	0.1148	
					50	49	20.52	0.1127	
				16-QAM	100	0	20.77	0.1194	
					1	0	21.03	0.1268	
					1	49	20.82	0.1208	
					1	99	20.80	0.1202	
					50	0	19.61	0.0914	
					50	24	19.52	0.0895	
		20175	1732.5	QPSK	1732.5	50	49	19.62	0.0916
						100	0	19.70	0.0933
						1	0	22.16	0.1644
						1	49	21.90	0.1549
						1	99	22.04	0.1600
						50	0	20.65	0.1161
				16-QAM	50	24	20.49	0.1119	
					50	49	20.55	0.1135	
					100	0	20.80	0.1202	
					1	0	21.04	0.1271	
					1	49	20.82	0.1208	
					1	99	21.03	0.1268	
		20300	1745.0	QPSK	1745.0	50	0	19.60	0.0912
						50	24	19.52	0.0895
						50	49	19.56	0.0904
						100	0	19.66	0.0925
						1	0	21.99	0.1581
						1	49	21.98	0.1578
16-QAM	1			99	21.90	0.1549			
	50			0	20.60	0.1148			
	50			24	20.55	0.1135			
	50			49	20.50	0.1122			
	100			0	20.66	0.1164			
	1			0	21.21	0.1321			
16-QAM	1	49	21.13	0.1297					
	1	99	21.20	0.1318					
	50	0	19.56	0.0904					
	50	24	19.49	0.0889					
	50	49	19.63	0.0918					
	100	0	19.65	0.0923					



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 5	1.4MHz	20407	824.7	QPSK	1	0	24.79	0.3013
					1	2	24.64	0.2911
					1	5	24.56	0.2858
					3	0	24.63	0.2904
					3	1	24.72	0.2965
					3	2	24.61	0.2891
					6	0	23.60	0.2291
		16-QAM	1	0	23.66	0.2323		
			1	2	23.65	0.2317		
			1	5	23.69	0.2339		
			3	0	23.56	0.2270		
			3	1	23.55	0.2265		
			3	2	23.54	0.2259		
			6	0	22.52	0.1786		
	20525	836.5	QPSK	1	0	24.97	0.3141	
				1	2	24.66	0.2924	
				1	5	24.61	0.2891	
				3	0	24.49	0.2812	
				3	1	24.53	0.2838	
				3	2	24.48	0.2805	
				6	0	23.51	0.2244	
		16-QAM	1	0	23.72	0.2355		
			1	2	23.66	0.2323		
			1	5	23.71	0.2350		
			3	0	23.61	0.2296		
			3	1	23.61	0.2296		
			3	2	23.52	0.2249		
6			0	22.61	0.1824			
20643	848.3	QPSK	1	0	24.95	0.3126		
			1	2	24.88	0.3076		
			1	5	24.81	0.3027		
			3	0	24.50	0.2818		
			3	1	24.58	0.2871		
			3	2	24.54	0.2844		
			6	0	23.51	0.2244		
	16-QAM	1	0	23.80	0.2399			
		1	2	23.38	0.2178			
		1	5	23.52	0.2249			
		3	0	23.68	0.2333			
		3	1	23.68	0.2333			
		3	2	23.67	0.2328			
		6	0	22.49	0.1774			



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 5	3MHz	20415	825.5	QPSK	1	0	24.69	0.2944
					1	7	24.64	0.2911
					1	14	24.71	0.2958
					8	0	23.66	0.2323
					8	4	23.54	0.2259
					8	7	23.54	0.2259
					15	0	23.41	0.2193
				16-QAM	1	0	23.68	0.2333
					1	7	23.75	0.2371
					1	14	23.62	0.2301
					8	0	22.56	0.1803
					8	4	22.45	0.1758
					8	7	22.48	0.1770
					15	0	22.33	0.1710
					20525	836.5	QPSK	1
		1	7	24.68				0.2938
		1	14	24.69				0.2944
		8	0	23.61				0.2296
		8	4	23.59				0.2286
		8	7	23.62				0.2301
		15	0	23.47				0.2223
		16-QAM	1	0			23.48	0.2228
			1	7			23.47	0.2223
			1	14			23.46	0.2218
			8	0			22.44	0.1754
			8	4			22.52	0.1786
			8	7			22.46	0.1762
			15	0			22.27	0.1687
			20635	847.5			QPSK	1
		1			7	24.69		0.2944
1	14	24.65			0.2917			
8	0	23.45			0.2213			
8	4	23.54			0.2259			
8	7	23.48			0.2228			
15	0	23.44			0.2208			
16-QAM	1	0			23.69	0.2339		
	1	7			23.66	0.2323		
	1	14			23.56	0.2270		
	8	0			22.34	0.1714		
	8	4			22.61	0.1824		
	8	7			22.34	0.1714		
	15	0			22.33	0.1710		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 5	5MHz	20425	826.5	QPSK	1	0	24.65	0.2917
					1	12	24.62	0.2897
					1	24	24.73	0.2972
					12	0	23.43	0.2203
					12	6	23.48	0.2228
					12	11	23.55	0.2265
					25	0	23.32	0.2148
		16-QAM	1	0	23.80	0.2399		
			1	12	23.71	0.2350		
			1	24	23.83	0.2415		
			12	0	22.42	0.1746		
			12	6	22.50	0.1778		
			12	11	22.55	0.1799		
			25	0	22.22	0.1667		
		20525	836.5	QPSK	1	0	24.79	0.3013
	1				12	24.70	0.2951	
	1				24	24.77	0.2999	
	12				0	23.55	0.2265	
	12				6	23.59	0.2286	
	12				11	23.53	0.2254	
	25				0	23.43	0.2203	
	16-QAM		1	0	23.68	0.2333		
			1	12	23.60	0.2291		
			1	24	23.66	0.2323		
			12	0	22.49	0.1774		
			12	6	22.60	0.1820		
			12	11	22.58	0.1811		
			25	0	22.32	0.1706		
	20625		846.5	QPSK	1	0	24.57	0.2864
		1			12	24.50	0.2818	
1		24			24.56	0.2858		
12		0			23.63	0.2307		
12		6			23.61	0.2296		
12		11			23.42	0.2198		
25		0			23.43	0.2203		
16-QAM		1	0	23.93	0.2472			
		1	12	23.53	0.2254			
		1	24	23.16	0.2070			
		12	0	22.22	0.1667			
		12	6	22.59	0.1816			
		12	11	22.39	0.1734			
		25	0	21.97	0.1574			



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 5	10MHz	20450	829.0	QPSK	1	0	24.87	0.3069
					1	24	24.82	0.3034
					1	49	24.80	0.3020
					25	0	23.52	0.2249
					25	12	23.53	0.2254
					25	24	23.65	0.2317
		16-QAM	50	0	23.49	0.2234		
			1	0	23.81	0.2404		
			1	24	23.75	0.2371		
			1	49	23.75	0.2371		
			25	0	22.59	0.1816		
			25	12	22.52	0.1786		
		QPSK	25	24	22.48	0.1770		
			50	0	22.49	0.1774		
			1	0	24.88	0.3076		
			1	24	24.67	0.2931		
			1	49	24.76	0.2992		
			25	0	23.68	0.2333		
	16-QAM	25	12	23.40	0.2188			
		25	24	23.38	0.2178			
		50	0	23.53	0.2254			
		1	0	23.84	0.2421			
		1	24	23.76	0.2377			
		1	49	23.77	0.2382			
	QPSK	25	0	22.36	0.1722			
		25	12	22.30	0.1698			
		25	24	22.32	0.1706			
		50	0	22.37	0.1726			
		1	0	24.78	0.3006			
		1	24	24.65	0.2917			
16-QAM	1	49	24.72	0.2965				
	25	0	23.44	0.2208				
	25	12	23.57	0.2275				
	25	24	23.27	0.2123				
	50	0	23.32	0.2148				
	1	0	23.68	0.2333				
QPSK	1	24	23.66	0.2323				
	1	49	23.39	0.2183				
	25	0	22.35	0.1718				
	25	12	22.53	0.1791				
	25	24	22.26	0.1683				
	50	0	22.23	0.1671				



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 12	1.4MHz	23017	699.7	QPSK	1	0	24.45	0.2786
					1	2	24.44	0.2780
					1	5	24.14	0.2594
					3	0	24.26	0.2667
					3	1	24.31	0.2698
					3	2	24.29	0.2685
		16-QAM	6	0	23.22	0.2099		
			1	0	23.43	0.2203		
			1	2	23.05	0.2018		
			1	5	23.39	0.2183		
			3	0	23.26	0.2118		
			3	1	23.26	0.2118		
		QPSK	3	2	23.36	0.2168		
			6	0	22.22	0.1667		
			1	0	24.56	0.2858		
			1	2	24.45	0.2786		
			1	5	24.37	0.2735		
			3	0	24.45	0.2786		
	16-QAM	3	1	24.37	0.2735			
		3	2	24.36	0.2729			
		6	0	23.32	0.2148			
		1	0	23.48	0.2228			
		1	2	23.33	0.2153			
		1	5	23.28	0.2128			
	QPSK	3	0	23.38	0.2178			
		3	1	23.34	0.2158			
		3	2	23.40	0.2188			
		6	0	22.34	0.1714			
		1	0	24.52	0.2831			
		1	2	24.50	0.2818			
16-QAM	1	5	24.44	0.2780				
	3	0	24.39	0.2748				
	3	1	24.42	0.2767				
	3	2	24.49	0.2812				
	6	0	23.47	0.2223				
	1	0	23.32	0.2148				
QPSK	1	2	23.27	0.2123				
	1	5	22.84	0.1923				
	3	0	23.15	0.2065				
	3	1	23.04	0.2014				
	3	2	23.09	0.2037				
	6	0	22.47	0.1766				



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)	
					RB Size	RB Offset			
LTE Band 12	3MHz	23025	700.5	QPSK	1	0	24.44	0.2780	
					1	7	24.13	0.2588	
					1	14	24.36	0.2729	
					8	0	23.23	0.2104	
					8	4	23.19	0.2084	
					8	7	23.11	0.2046	
		16-QAM	15	0	23.11	0.2046			
			1	0	23.28	0.2128			
			1	7	23.21	0.2094			
			1	14	23.24	0.2109			
			8	0	22.21	0.1663			
			8	4	22.19	0.1656			
		QPSK	8	7	22.20	0.1660			
			15	0	22.08	0.1614			
			23095	707.5	QPSK	1	0	24.57	0.2864
						1	7	24.44	0.2780
						1	14	24.31	0.2698
						8	0	23.45	0.2213
	8	4				23.39	0.2183		
	8	7				23.35	0.2163		
	16-QAM	15	0	23.32	0.2148				
		1	0	23.62	0.2301				
		1	7	23.33	0.2153				
		1	14	23.22	0.2099				
		8	0	22.38	0.1730				
		8	4	22.13	0.1633				
	QPSK	8	7	22.25	0.1679				
		15	0	22.39	0.1734				
		23165	714.5	QPSK	1	0	24.51	0.2825	
					1	7	24.49	0.2812	
1					14	24.52	0.2831		
8					0	23.26	0.2118		
8	4				23.49	0.2234			
8	7				23.51	0.2244			
16-QAM	15	0	23.26	0.2118					
	1	0	23.50	0.2239					
	1	7	23.42	0.2198					
	1	14	23.41	0.2193					
	8	0	22.49	0.1774					
	8	4	22.51	0.1782					
8	7	22.43	0.1750						
15	0	22.30	0.1698						



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 12	5MHz	701.5	23035	QPSK	1	0	24.44	0.2780
					1	12	24.43	0.2773
					1	24	24.28	0.2679
					12	0	23.30	0.2138
					12	6	23.21	0.2094
					12	11	22.97	0.1982
					25	0	23.04	0.2014
				16-QAM	1	0	23.23	0.2104
					1	12	23.16	0.2070
					1	24	22.88	0.1941
					12	0	22.08	0.1614
					12	6	22.20	0.1660
					12	11	22.02	0.1592
					25	0	21.94	0.1563
		23095	707.5	QPSK	1	0	24.48	0.2805
					1	12	24.44	0.2780
					1	24	24.42	0.2767
					12	0	23.34	0.2158
					12	6	23.39	0.2183
					12	11	23.36	0.2168
					25	0	23.12	0.2051
				16-QAM	1	0	23.24	0.2109
					1	12	23.16	0.2070
					1	24	23.18	0.2080
					12	0	22.39	0.1734
					12	6	22.47	0.1766
					12	11	22.32	0.1706
					25	0	22.06	0.1607
		713.5	23155	QPSK	1	0	24.54	0.2844
					1	12	24.03	0.2529
1	24				24.14	0.2594		
12	0				23.34	0.2158		
12	6				23.36	0.2168		
12	11				23.37	0.2173		
25	0				23.09	0.2037		
16-QAM	1			0	23.74	0.2366		
	1			12	23.69	0.2339		
	1			24	23.67	0.2328		
	12			0	22.39	0.1734		
	12			6	22.44	0.1754		
	12			11	22.47	0.1766		
	25			0	22.10	0.1622		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 12	10MHz	23060	704.0	QPSK	1	0	24.47	0.2799
					1	24	24.37	0.2735
					1	49	24.46	0.2793
					25	0	22.92	0.1959
					25	12	22.95	0.1972
					25	24	23.10	0.2042
					50	0	22.86	0.1932
		16-QAM	1	0	23.49	0.2234		
			1	24	23.32	0.2148		
			1	49	23.44	0.2208		
			25	0	21.87	0.1538		
			25	12	21.94	0.1563		
			25	24	22.00	0.1585		
			50	0	21.80	0.1514		
	23095	707.5	QPSK	1	0	24.48	0.2805	
				1	24	24.36	0.2729	
				1	49	24.05	0.2541	
				25	0	23.19	0.2084	
				25	12	23.10	0.2042	
				25	24	23.16	0.2070	
				50	0	22.90	0.1950	
		16-QAM	1	0	23.45	0.2213		
			1	24	23.42	0.2198		
			1	49	23.39	0.2183		
			25	0	22.06	0.1607		
			25	12	22.03	0.1596		
			25	24	22.18	0.1652		
50			0	21.74	0.1493			
23130	711.0	QPSK	1	0	24.40	0.2754		
			1	24	24.39	0.2748		
			1	49	24.14	0.2594		
			25	0	22.97	0.1982		
			25	12	23.12	0.2051		
			25	24	23.08	0.2032		
			50	0	22.84	0.1923		
	16-QAM	1	0	23.49	0.2234			
		1	24	23.48	0.2228			
		1	49	23.08	0.2032			
		25	0	22.01	0.1589			
		25	12	21.92	0.1556			
		25	24	22.02	0.1592			
		50	0	21.92	0.1556			



3.1.6 Test Result of ERP/EIRP

LTE Band 2 Radiated Power EIRP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
2	1.4	QPSK	1	0	1850.7	20.42	0.1102	H
2	1.4	QPSK	1	0	1880	20.59	0.1146	H
2	1.4	QPSK	1	0	1909.3	19.74	0.0942	H
2	1.4	QPSK	1	0	1850.7	20.69	0.1172	V
2	1.4	QPSK	1	0	1880	21.42	0.1387	V
2	1.4	QPSK	1	0	1909.3	23.16	0.2070	V
2	1.4	16QAM	1	0	1850.7	19.49	0.0889	H
2	1.4	16QAM	1	0	1880	19.65	0.0923	H
2	1.4	16QAM	1	0	1909.3	18.60	0.0724	H
2	1.4	16QAM	1	0	1850.7	19.36	0.0863	V
2	1.4	16QAM	1	0	1880	20.61	0.1151	V
2	1.4	16QAM	1	0	1909.3	22.16	0.1644	V
2	3	QPSK	1	0	1851.5	20.40	0.1096	H
2	3	QPSK	1	14	1880	20.81	0.1205	H
2	3	QPSK	1	0	1908.5	19.62	0.0916	H
2	3	QPSK	1	0	1851.5	20.31	0.1074	V
2	3	QPSK	1	14	1880	21.76	0.1500	V
2	3	QPSK	1	0	1908.5	22.80	0.1905	V
2	3	16QAM	1	0	1851.5	19.40	0.0871	H
2	3	16QAM	1	0	1880	19.66	0.0925	H
2	3	16QAM	1	0	1908.5	18.53	0.0713	H
2	3	16QAM	1	0	1851.5	19.20	0.0832	V
2	3	16QAM	1	0	1880	20.54	0.1132	V
2	3	16QAM	1	0	1908.5	21.73	0.1489	V



LTE Band 2 Radiated Power EIRP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
2	5	QPSK	1	0	1852.5	20.18	0.1042	H
2	5	QPSK	1	0	1880	20.25	0.1059	H
2	5	QPSK	1	0	1907.5	19.28	0.0847	H
2	5	QPSK	1	0	1852.5	20.28	0.1067	V
2	5	QPSK	1	0	1880	21.05	0.1274	V
2	5	QPSK	1	0	1907.5	22.57	0.1807	V
2	5	16QAM	1	0	1852.5	19.21	0.0834	H
2	5	16QAM	1	0	1880	19.53	0.0897	H
2	5	16QAM	1	0	1907.5	18.37	0.0687	H
2	5	16QAM	1	0	1852.5	19.27	0.0845	V
2	5	16QAM	1	0	1880	20.35	0.1084	V
2	5	16QAM	1	0	1907.5	21.54	0.1426	V
2	10	QPSK	1	0	1855	20.27	0.1064	H
2	10	QPSK	1	0	1880	20.40	0.1096	H
2	10	QPSK	1	0	1905	19.13	0.0818	H
2	10	QPSK	1	0	1855	20.24	0.1057	V
2	10	QPSK	1	0	1880	21.10	0.1288	V
2	10	QPSK	1	0	1905	21.90	0.1549	V
2	10	16QAM	1	0	1855	19.47	0.0885	H
2	10	16QAM	1	0	1880	19.60	0.0912	H
2	10	16QAM	1	0	1905	18.28	0.0673	H
2	10	16QAM	1	0	1855	19.53	0.0897	V
2	10	16QAM	1	0	1880	20.43	0.1104	V
2	10	16QAM	1	0	1905	21.13	0.1297	V



LTE Band 2 Radiated Power EIRP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
2	15	QPSK	1	0	1857.5	19.50	0.0891	H
2	15	QPSK	1	0	1880	20.67	0.1167	H
2	15	QPSK	1	0	1902.5	21.07	0.1279	H
2	15	QPSK	1	0	1857.5	19.95	0.0989	V
2	15	QPSK	1	0	1880	20.02	0.1005	V
2	15	QPSK	1	0	1902.5	19.05	0.0804	V
2	15	16QAM	1	0	1857.5	17.83	0.0607	H
2	15	16QAM	1	0	1880	16.01	0.0399	H
2	15	16QAM	1	0	1902.5	16.98	0.0499	H
2	15	16QAM	1	0	1857.5	18.30	0.0676	V
2	15	16QAM	1	0	1880	15.32	0.0340	V
2	15	16QAM	1	0	1902.5	14.37	0.0274	V
2	20	QPSK	1	0	1860	19.48	0.0887	H
2	20	QPSK	1	0	1880	20.26	0.1062	H
2	20	QPSK	1	0	1900	22.08	0.1614	H
2	20	QPSK	1	0	1860	20.08	0.1019	V
2	20	QPSK	1	0	1880	19.88	0.0973	V
2	20	QPSK	1	0	1900	20.51	0.1125	V
2	20	16QAM	1	0	1860	17.82	0.0605	H
2	20	16QAM	1	0	1880	19.02	0.0798	H
2	20	16QAM	1	0	1900	17.13	0.0516	H
2	20	16QAM	1	0	1860	18.20	0.0661	V
2	20	16QAM	1	0	1880	18.25	0.0668	V
2	20	16QAM	1	0	1900	15.30	0.0339	V



LTE Band 4 Radiated Power EIRP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
4	1.4	QPSK	1	0	1710.7	22.06	0.1607	H
4	1.4	QPSK	1	0	1732.5	21.67	0.1469	H
4	1.4	QPSK	1	0	1754.3	21.99	0.1581	H
4	1.4	QPSK	1	0	1710.7	21.92	0.1556	V
4	1.4	QPSK	1	0	1732.5	20.77	0.1194	V
4	1.4	QPSK	1	0	1754.3	21.20	0.1318	V
4	1.4	16QAM	1	0	1710.7	21.27	0.1340	H
4	1.4	16QAM	1	0	1732.5	20.92	0.1236	H
4	1.4	16QAM	1	0	1754.3	21.05	0.1274	H
4	1.4	16QAM	1	0	1710.7	20.99	0.1256	V
4	1.4	16QAM	1	0	1732.5	20.03	0.1007	V
4	1.4	16QAM	1	0	1754.3	20.26	0.1062	V
4	3	QPSK	1	0	1711.5	22.19	0.1656	H
4	3	QPSK	1	0	1732.5	21.64	0.1459	H
4	3	QPSK	1	0	1753.5	22.11	0.1626	H
4	3	QPSK	1	0	1711.5	21.77	0.1503	V
4	3	QPSK	1	0	1732.5	20.58	0.1143	V
4	3	QPSK	1	0	1753.5	21.31	0.1352	V
4	3	16QAM	1	0	1711.5	21.38	0.1374	H
4	3	16QAM	1	0	1732.5	20.68	0.1169	H
4	3	16QAM	1	0	1753.5	21.20	0.1318	H
4	3	16QAM	1	0	1711.5	21.16	0.1306	V
4	3	16QAM	1	0	1732.5	19.86	0.0968	V
4	3	16QAM	1	0	1753.5	20.37	0.1089	V



LTE Band 4 Radiated Power EIRP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
4	5	QPSK	1	0	1712.5	22.21	0.1663	H
4	5	QPSK	1	0	1732.5	21.67	0.1469	H
4	5	QPSK	1	0	1752.5	22.27	0.1687	H
4	5	QPSK	1	0	1712.5	21.81	0.1517	V
4	5	QPSK	1	0	1732.5	20.87	0.1222	V
4	5	QPSK	1	0	1752.5	21.14	0.1300	V
4	5	16QAM	1	0	1712.5	21.19	0.1315	H
4	5	16QAM	1	0	1732.5	20.88	0.1225	H
4	5	16QAM	1	0	1752.5	21.24	0.1330	H
4	5	16QAM	1	0	1712.5	20.88	0.1225	V
4	5	16QAM	1	0	1732.5	20.03	0.1007	V
4	5	16QAM	1	0	1752.5	20.24	0.1057	V
4	10	QPSK	1	0	1715	22.23	0.1671	H
4	10	QPSK	1	0	1732.5	21.39	0.1377	H
4	10	QPSK	1	0	1750	22.50	0.1778	H
4	10	QPSK	1	0	1715	21.59	0.1442	V
4	10	QPSK	1	0	1732.5	20.53	0.1130	V
4	10	QPSK	1	0	1750	21.58	0.1439	V
4	10	16QAM	1	0	1715	21.50	0.1413	H
4	10	16QAM	1	0	1732.5	20.93	0.1239	H
4	10	16QAM	1	0	1750	20.93	0.1239	H
4	10	16QAM	1	0	1715	20.85	0.1216	V
4	10	16QAM	1	0	1732.5	19.96	0.0991	V
4	10	16QAM	1	0	1750	20.32	0.1076	V



LTE Band 4 Radiated Power EIRP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
4	15	QPSK	1	0	1717.5	22.12	0.1629	H
4	15	QPSK	1	0	1732.5	21.25	0.1334	H
4	15	QPSK	1	0	1747.5	21.84	0.1528	H
4	15	QPSK	1	0	1717.5	21.56	0.1432	V
4	15	QPSK	1	0	1732.5	20.67	0.1167	V
4	15	QPSK	1	0	1747.5	21.12	0.1294	V
4	15	16QAM	1	0	1717.5	21.44	0.1393	H
4	15	16QAM	1	0	1732.5	20.34	0.1081	H
4	15	16QAM	1	0	1747.5	21.17	0.1309	H
4	15	16QAM	1	0	1717.5	20.94	0.1242	V
4	15	16QAM	1	0	1732.5	20.30	0.1072	V
4	15	16QAM	1	0	1747.5	20.15	0.1035	V
4	20	QPSK	1	0	1720	22.33	0.1710	H
4	20	QPSK	1	0	1732.5	22.26	0.1683	H
4	20	QPSK	1	0	1745	21.78	0.1507	H
4	20	QPSK	1	0	1720	21.35	0.1365	V
4	20	QPSK	1	0	1732.5	21.48	0.1406	V
4	20	QPSK	1	0	1745	20.73	0.1183	V
4	20	16QAM	1	0	1720	21.44	0.1393	H
4	20	16QAM	1	0	1732.5	20.65	0.1161	H
4	20	16QAM	1	0	1745	20.43	0.1104	H
4	20	16QAM	1	0	1720	20.59	0.1146	V
4	20	16QAM	1	0	1732.5	20.11	0.1026	V
4	20	16QAM	1	0	1745	20.00	0.1000	V



LTE Band 5 Radiated Power ERP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	ERP (W)	H/V
			RB Size	RB Offset				
5	1.4	QPSK	1	0	824.7	8.75	0.0075	H
5	1.4	QPSK	1	0	836.5	9.81	0.0096	H
5	1.4	QPSK	1	0	848.3	10.09	0.0102	H
5	1.4	QPSK	1	0	824.7	15.20	0.0331	V
5	1.4	QPSK	1	0	836.5	14.92	0.0310	V
5	1.4	QPSK	1	0	848.3	14.47	0.0280	V
5	1.4	16QAM	1	5	824.7	7.31	0.0054	H
5	1.4	16QAM	1	0	836.5	8.94	0.0078	H
5	1.4	16QAM	1	0	848.3	9.30	0.0085	H
5	1.4	16QAM	1	5	824.7	13.75	0.0237	V
5	1.4	16QAM	1	0	836.5	13.94	0.0248	V
5	1.4	16QAM	1	0	848.3	13.51	0.0224	V
5	3	QPSK	1	14	825.5	7.94	0.0062	H
5	3	QPSK	1	0	836.5	9.74	0.0094	H
5	3	QPSK	1	0	847.5	10.12	0.0103	H
5	3	QPSK	1	14	825.5	14.68	0.0294	V
5	3	QPSK	1	0	836.5	15.06	0.0321	V
5	3	QPSK	1	0	847.5	14.58	0.0287	V
5	3	16QAM	1	7	825.5	7.22	0.0053	H
5	3	16QAM	1	0	836.5	8.97	0.0079	H
5	3	16QAM	1	0	847.5	9.30	0.0085	H
5	3	16QAM	1	7	825.5	13.75	0.0237	V
5	3	16QAM	1	0	836.5	14.15	0.0260	V
5	3	16QAM	1	0	847.5	13.71	0.0235	V



LTE Band 5 Radiated Power ERP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	ERP (W)	H/V
			RB Size	RB Offset				
5	5	QPSK	1	24	826.5	8.07	0.0064	H
5	5	QPSK	1	0	836.5	10.19	0.0104	H
5	5	QPSK	1	0	846.5	9.69	0.0093	H
5	5	QPSK	1	24	826.5	15.13	0.0326	V
5	5	QPSK	1	0	836.5	15.51	0.0356	V
5	5	QPSK	1	0	846.5	14.53	0.0284	V
5	5	16QAM	1	24	826.5	7.43	0.0055	H
5	5	16QAM	1	0	836.5	9.45	0.0088	H
5	5	16QAM	1	0	846.5	9.03	0.0080	H
5	5	16QAM	1	24	826.5	14.55	0.0285	V
5	5	16QAM	1	0	836.5	14.90	0.0309	V
5	5	16QAM	1	0	846.5	13.90	0.0245	V
5	10	QPSK	1	0	829	14.17	0.0261	H
5	10	QPSK	1	0	836.5	15.49	0.0354	H
5	10	QPSK	1	0	844	13.61	0.0230	H
5	10	QPSK	1	0	829	8.68	0.0074	V
5	10	QPSK	1	0	836.5	9.74	0.0094	V
5	10	QPSK	1	0	844	9.01	0.0080	V
5	10	16QAM	1	0	829	13.29	0.0213	H
5	10	16QAM	1	0	836.5	14.12	0.0258	H
5	10	16QAM	1	0	844	12.11	0.0163	H
5	10	16QAM	1	0	829	7.79	0.0060	V
5	10	16QAM	1	0	836.5	9.59	0.0091	V
5	10	16QAM	1	0	844	7.77	0.0060	V



LTE Band 12 Radiated Power ERP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	ERP (W)	H/V
			RB Size	RB Offset				
12	1.4	QPSK	1	0	699.7	8.66	0.0073	H
12	1.4	QPSK	1	0	707.5	6.85	0.0048	H
12	1.4	QPSK	1	0	715.3	6.76	0.0047	H
12	1.4	QPSK	1	0	699.7	15.10	0.0324	V
12	1.4	QPSK	1	0	707.5	14.36	0.0273	V
12	1.4	QPSK	1	0	715.3	16.04	0.0402	V
12	1.4	16QAM	1	0	699.7	8.10	0.0065	H
12	1.4	16QAM	1	0	707.5	6.03	0.0040	H
12	1.4	16QAM	1	0	715.3	5.94	0.0039	H
12	1.4	16QAM	1	0	699.7	14.48	0.0281	V
12	1.4	16QAM	1	0	707.5	13.44	0.0221	V
12	1.4	16QAM	1	0	715.3	15.20	0.0331	V
12	3	QPSK	1	0	700.5	8.65	0.0073	H
12	3	QPSK	1	0	707.5	6.42	0.0044	H
12	3	QPSK	1	14	714.5	7.21	0.0053	H
12	3	QPSK	1	0	700.5	14.90	0.0309	V
12	3	QPSK	1	0	707.5	13.86	0.0243	V
12	3	QPSK	1	14	714.5	16.58	0.0455	V
12	3	16QAM	1	0	700.5	8.20	0.0066	H
12	3	16QAM	1	0	707.5	6.03	0.0040	H
12	3	16QAM	1	0	714.5	6.52	0.0045	H
12	3	16QAM	1	0	700.5	14.31	0.0270	V
12	3	16QAM	1	0	707.5	13.32	0.0215	V
12	3	16QAM	1	0	714.5	15.65	0.0367	V



LTE Band 12 Radiated Power ERP								
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	ERP (W)	H/V
			RB Size	RB Offset				
12	5	QPSK	1	0	701.5	8.49	0.0071	H
12	5	QPSK	1	0	707.5	6.20	0.0042	H
12	5	QPSK	1	0	713.5	8.65	0.0073	H
12	5	QPSK	1	0	701.5	15.11	0.0324	V
12	5	QPSK	1	0	707.5	13.47	0.0222	V
12	5	QPSK	1	0	713.5	17.38	0.0547	V
12	5	16QAM	1	0	701.5	7.99	0.0063	H
12	5	16QAM	1	0	707.5	5.89	0.0039	H
12	5	16QAM	1	0	713.5	7.75	0.0060	H
12	5	16QAM	1	0	701.5	14.31	0.0270	V
12	5	16QAM	1	0	707.5	12.97	0.0198	V
12	5	16QAM	1	0	713.5	16.83	0.0482	V
12	10	QPSK	1	0	704	8.75	0.0075	H
12	10	QPSK	1	0	707.5	7.39	0.0055	H
12	10	QPSK	1	0	711	6.78	0.0048	H
12	10	QPSK	1	0	704	15.07	0.0321	V
12	10	QPSK	1	0	707.5	13.94	0.0248	V
12	10	QPSK	1	0	711	13.83	0.0242	V
12	10	16QAM	1	0	704	7.96	0.0063	H
12	10	16QAM	1	0	707.5	6.63	0.0046	H
12	10	16QAM	1	0	711	6.05	0.0040	H
12	10	16QAM	1	0	704	14.35	0.0272	V
12	10	16QAM	1	0	707.5	13.30	0.0214	V
12	10	16QAM	1	0	711	13.48	0.0223	V

## 3.2 Peak-to-Average Ratio

### 3.2.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. The following guidelines are offered for performing a CCDF measurement.

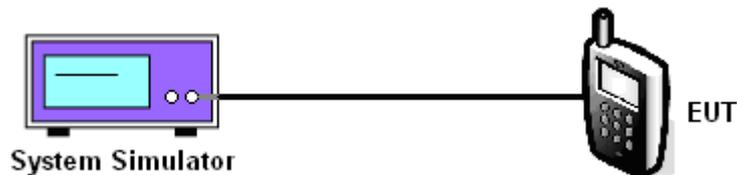
### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The CCDF (Complementary Cumulative Distribution Function) of the middle channel for the highest RF powers were measured.

### 3.2.4 Test Setup



3.2.5 Test Result of Peak-to-Average Ratio

Band	Band Width	Channel	Frequency (MHz)	Modulation	PAR (dB)
LTE Band 2	1.4MHz	18900	1880	QPSK	5.56
				16-QAM	6.32
	3MHz	18900	1880	QPSK	5.40
				16-QAM	6.44
	5MHz	18900	1880	QPSK	5.52
				16-QAM	6.16
	10MHz	18900	1880	QPSK	5.56
				16-QAM	6.52
	15MHz	18900	1880	QPSK	5.84
				16-QAM	6.88
	20MHz	18900	1880	QPSK	6.56
				16-QAM	7.24
LTE Band 4	1.4MHz	20175	1732.5	QPSK	5.56
				16-QAM	6.64
	3MHz	20175	1732.5	QPSK	5.56
				16-QAM	6.48
	5MHz	20175	1732.5	QPSK	5.76
				16-QAM	6.52
	10MHz	20175	1732.5	QPSK	5.76
				16-QAM	6.60
	15MHz	20175	1732.5	QPSK	5.80
				16-QAM	6.88
	20MHz	20175	1732.5	QPSK	6.32
				16-QAM	7.16



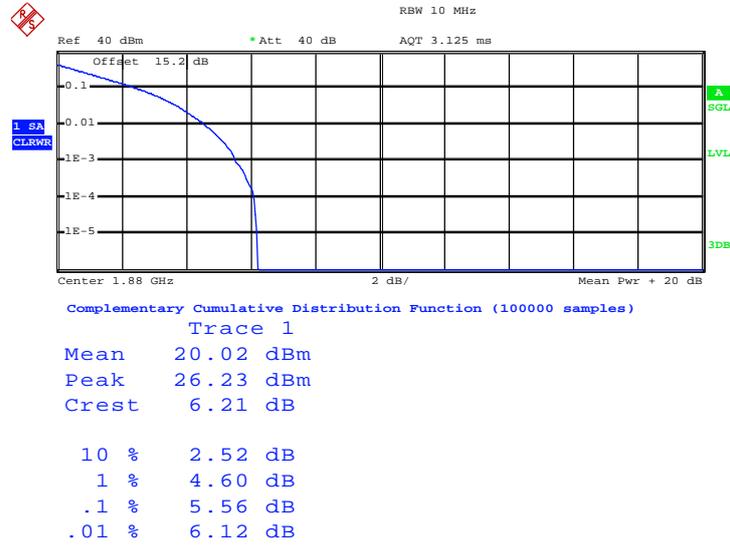
<b>LTE Band 5</b>	1.4MHz	20525	836.5	QPSK	5.32
				16-QAM	5.88
	3MHz	20525	836.5	QPSK	5.28
				16-QAM	6.08
	5MHz	20525	836.5	QPSK	5.48
				16-QAM	6.16
10MHz	20525	836.5	QPSK	5.56	
			16-QAM	6.40	
<b>LTE Band 12</b>	1.4MHz	23095	707.5	QPSK	5.68
				16-QAM	6.40
	3MHz	23095	707.5	QPSK	5.72
				16-QAM	6.56
	5MHz	23095	707.5	QPSK	5.88
				16-QAM	6.68
	10MHz	23095	707.5	QPSK	5.60
				16-QAM	6.48



### 3.2.6 Peak to Average Power Ratio

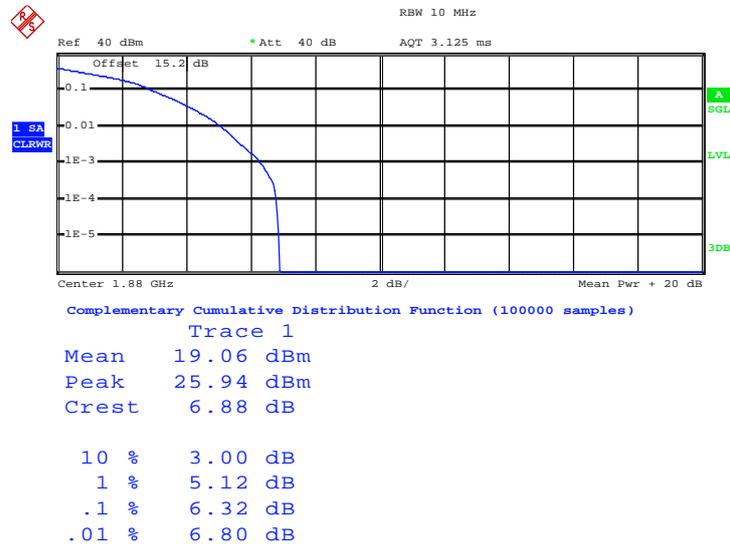
<b>Band:</b>	LTE Band 2	<b>Bandwidth:</b>	1.4MHz
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#### Peak-to-Average Ratio for QPSK-RB Size 6, RB Offset 0



Date: 2.MAR.2013 10:56:43

#### Peak-to-Average Ratio for 16QAM-RB Size 6, RB Offset 0



Date: 2.MAR.2013 10:56:29



<b>Band:</b>	LTE Band 2	<b>Bandwidth:</b>	3MHz
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Peak-to-Average Ratio for QPSK-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

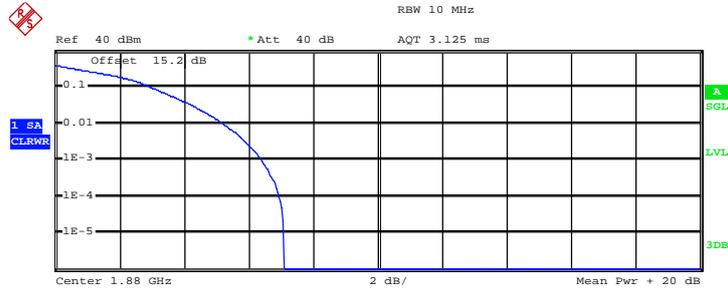
Trace 1

Mean 20.01 dBm  
 Peak 26.16 dBm  
 Crest 6.15 dB

10 % 2.48 dB  
 1 % 4.52 dB  
 .1 % 5.40 dB  
 .01 % 5.92 dB

Date: 2.MAR.2013 10:57:02

Peak-to-Average Ratio for 16QAM-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.06 dBm  
 Peak 26.16 dBm  
 Crest 7.10 dB

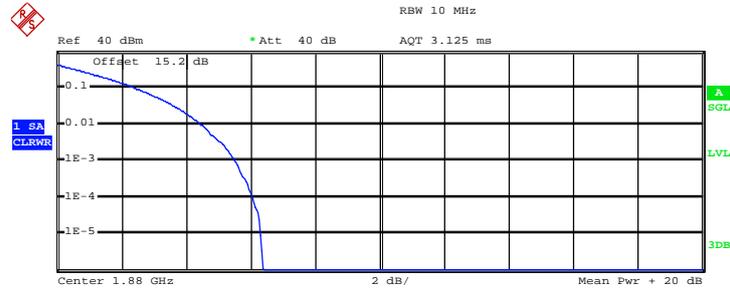
10 % 3.04 dB  
 1 % 5.24 dB  
 .1 % 6.44 dB  
 .01 % 6.96 dB

Date: 2.MAR.2013 10:57:10



<b>Band:</b>	LTE Band 2	<b>Bandwidth:</b>	5MHz
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**Peak-to-Average Ratio for QPSK-RB Size 25, RB Offset 0**



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.92 dBm  
 Peak 26.30 dBm  
 Crest 6.37 dB

10 % 2.48 dB  
 1 % 4.48 dB  
 .1 % 5.52 dB  
 .01 % 6.08 dB

Date: 2.MAR.2013 10:58:10

**Peak-to-Average Ratio for 16QAM-RB Size 25, RB Offset 0**



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 18.92 dBm  
 Peak 25.94 dBm  
 Crest 7.02 dB

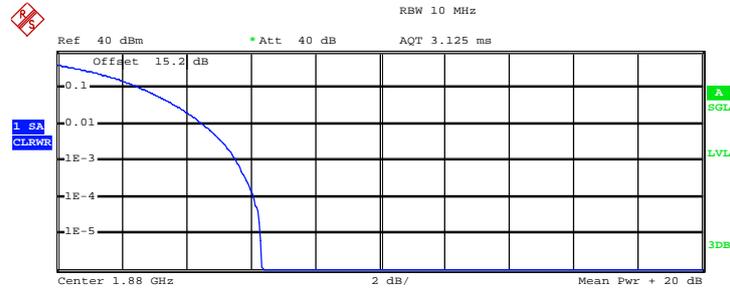
10 % 3.04 dB  
 1 % 5.04 dB  
 .1 % 6.16 dB  
 .01 % 6.80 dB

Date: 2.MAR.2013 10:57:30



<b>Band:</b>	LTE Band 2	<b>Bandwidth:</b>	10MHz
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Peak-to-Average Ratio for QPSK-RB Size 50, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

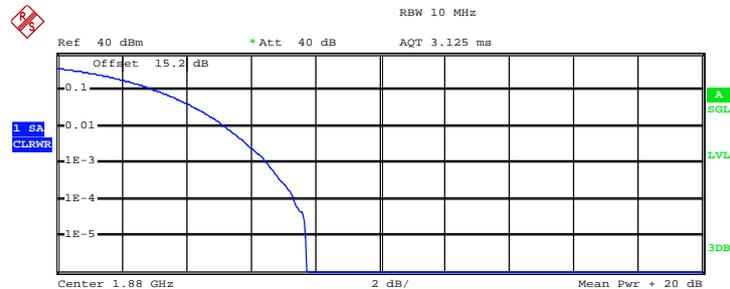
Trace 1

Mean 19.52 dBm  
 Peak 25.87 dBm  
 Crest 6.36 dB

10 % 2.64 dB  
 1 % 4.56 dB  
 .1 % 5.56 dB  
 .01 % 6.12 dB

Date: 2.MAR.2013 10:58:37

Peak-to-Average Ratio for 16QAM-RB Size 50, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 18.57 dBm  
 Peak 26.30 dBm  
 Crest 7.73 dB

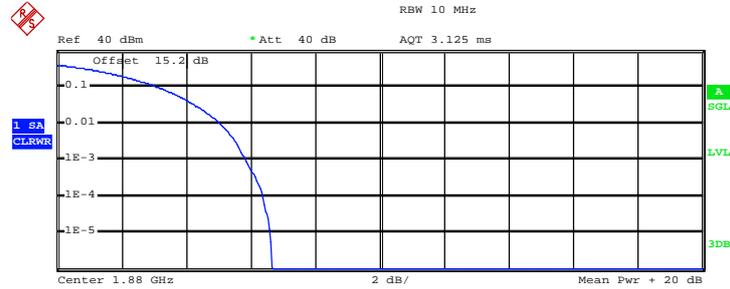
10 % 3.12 dB  
 1 % 5.24 dB  
 .1 % 6.52 dB  
 .01 % 7.36 dB

Date: 2.MAR.2013 10:58:52



<b>Band:</b>	LTE Band 2	<b>Bandwidth:</b>	15MHz
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Peak-to-Average Ratio for QPSK-RB Size 75, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

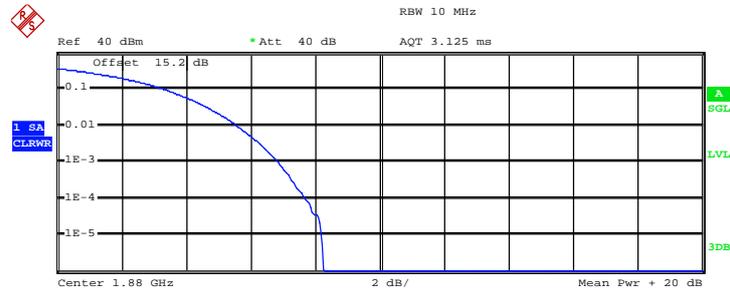
Trace 1

Mean 18.15 dBm  
 Peak 24.81 dBm  
 Crest 6.67 dB

10 % 3.20 dB  
 1 % 5.08 dB  
 .1 % 5.84 dB  
 .01 % 6.40 dB

Date: 2.MAR.2013 10:59:40

Peak-to-Average Ratio for 16QAM-RB Size 75, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 17.19 dBm  
 Peak 25.45 dBm  
 Crest 8.26 dB

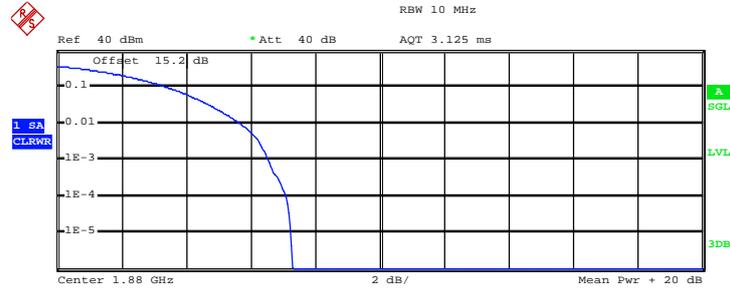
10 % 3.40 dB  
 1 % 5.60 dB  
 .1 % 6.88 dB  
 .01 % 7.72 dB

Date: 2.MAR.2013 10:59:22



<b>Band:</b>	LTE Band 2	<b>Bandwidth:</b>	20MHz
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Peak-to-Average Ratio for QPSK-RB Size 100, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

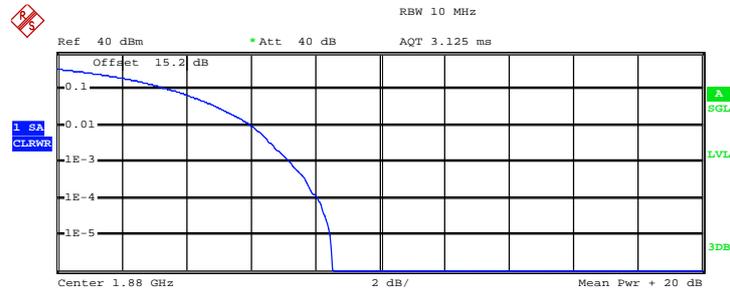
Trace 1

Mean 16.90 dBm  
 Peak 24.18 dBm  
 Crest 7.28 dB

10 % 3.48 dB  
 1 % 5.72 dB  
 .1 % 6.56 dB  
 .01 % 7.12 dB

Date: 2.MAR.2013 11:00:07

Peak-to-Average Ratio for 16QAM-RB Size 100, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 15.93 dBm  
 Peak 24.46 dBm  
 Crest 8.53 dB

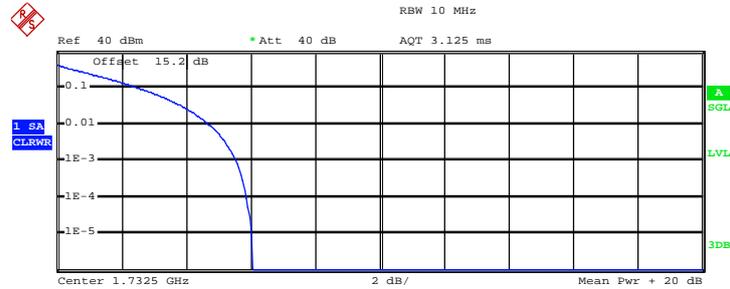
10 % 3.56 dB  
 1 % 6.04 dB  
 .1 % 7.24 dB  
 .01 % 8.12 dB

Date: 2.MAR.2013 11:00:28



<b>Band:</b>	LTE Band 4	<b>Bandwidth:</b>	1.4MHz
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Peak-to-Average Ratio for QPSK-RB Size 6, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

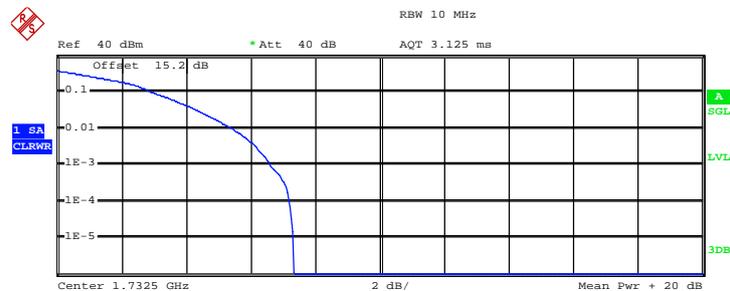
Trace 1

Mean 19.54 dBm  
 Peak 25.59 dBm  
 Crest 6.05 dB

10 % 2.60 dB  
 1 % 4.72 dB  
 .1 % 5.56 dB  
 .01 % 5.88 dB

Date: 2.MAR.2013 10:46:33

Peak-to-Average Ratio for 16QAM-RB Size 6, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 18.74 dBm  
 Peak 26.08 dBm  
 Crest 7.34 dB

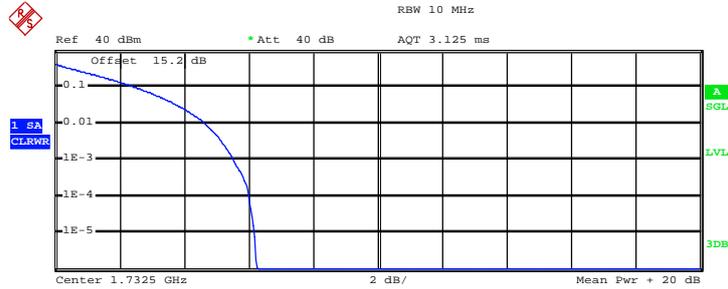
10 % 3.00 dB  
 1 % 5.44 dB  
 .1 % 6.64 dB  
 .01 % 7.20 dB

Date: 2.MAR.2013 10:46:43



<b>Band:</b>	LTE Band 4	<b>Bandwidth:</b>	3MHz
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Peak-to-Average Ratio for QPSK-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

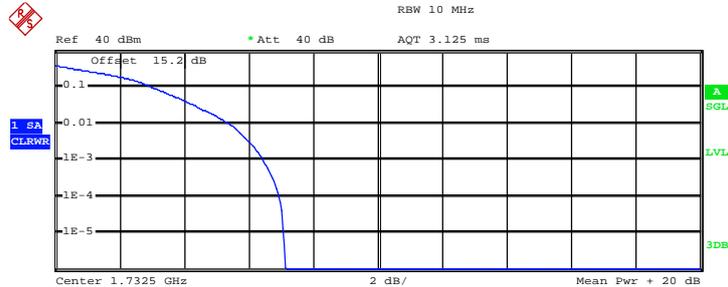
Trace 1

Mean 19.49 dBm  
 Peak 25.73 dBm  
 Crest 6.24 dB

10 % 2.56 dB  
 1 % 4.68 dB  
 .1 % 5.56 dB  
 .01 % 6.04 dB

Date: 2.MAR.2013 10:47:25

Peak-to-Average Ratio for 16QAM-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 18.45 dBm  
 Peak 25.59 dBm  
 Crest 7.14 dB

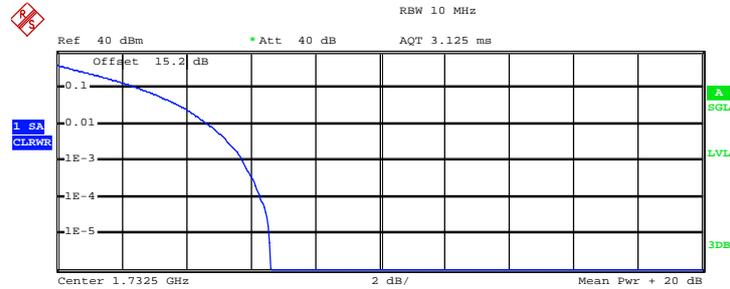
10 % 3.08 dB  
 1 % 5.44 dB  
 .1 % 6.48 dB  
 .01 % 6.96 dB

Date: 2.MAR.2013 10:47:09



<b>Band:</b>	LTE Band 4	<b>Bandwidth:</b>	5MHz
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Peak-to-Average Ratio for QPSK-RB Size 25, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.41 dBm  
 Peak 26.01 dBm  
 Crest 6.61 dB

10 % 2.60 dB  
 1 % 4.72 dB  
 .1 % 5.76 dB  
 .01 % 6.32 dB

Date: 2.MAR.2013 10:47:43

Peak-to-Average Ratio for 16QAM-RB Size 25, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 18.38 dBm  
 Peak 25.87 dBm  
 Crest 7.49 dB

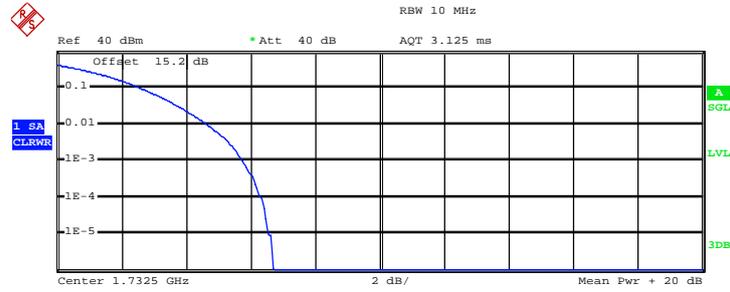
10 % 3.08 dB  
 1 % 5.32 dB  
 .1 % 6.52 dB  
 .01 % 7.16 dB

Date: 2.MAR.2013 10:48:06



<b>Band:</b>	LTE Band 4	<b>Bandwidth:</b>	10MHz
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Peak-to-Average Ratio for QPSK-RB Size 50, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

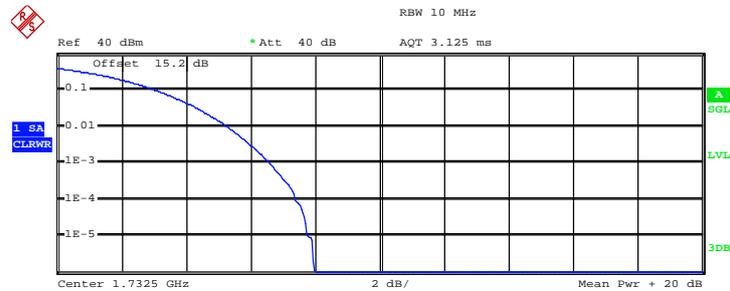
Trace 1

Mean 18.97 dBm  
 Peak 25.66 dBm  
 Crest 6.69 dB

10 % 2.64 dB  
 1 % 4.68 dB  
 .1 % 5.76 dB  
 .01 % 6.32 dB

Date: 2.MAR.2013 10:48:59

Peak-to-Average Ratio for 16QAM-RB Size 50, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 17.99 dBm  
 Peak 25.94 dBm  
 Crest 7.96 dB

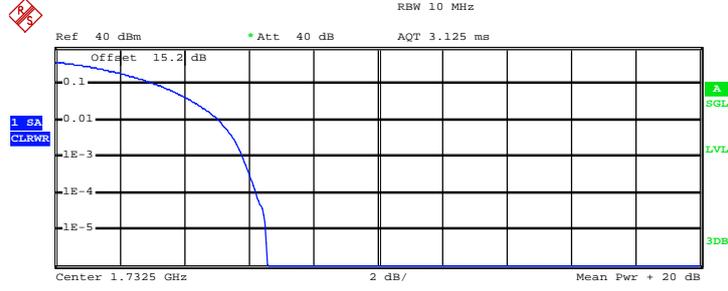
10 % 3.12 dB  
 1 % 5.28 dB  
 .1 % 6.60 dB  
 .01 % 7.40 dB

Date: 2.MAR.2013 10:48:51



<b>Band:</b>	LTE Band 4	<b>Bandwidth:</b>	15MHz
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Peak-to-Average Ratio for QPSK-RB Size 75, RB Offset 0



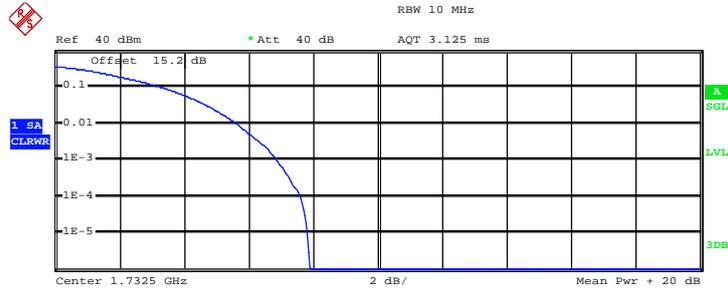
Complementary Cumulative Distribution Function (100000 samples)  
Trace 1

Mean 17.62 dBm  
 Peak 24.18 dBm  
 Crest 6.56 dB

10 % 3.20 dB  
 1 % 5.08 dB  
 .1 % 5.80 dB  
 .01 % 6.24 dB

Date: 2.MAR.2013 10:50:30

Peak-to-Average Ratio for 16QAM-RB Size 75, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)  
Trace 1

Mean 16.58 dBm  
 Peak 24.46 dBm  
 Crest 7.88 dB

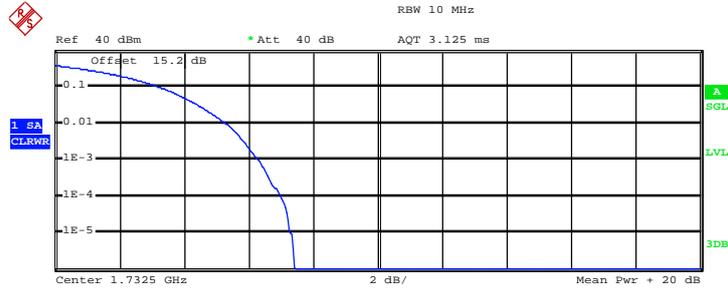
10 % 3.40 dB  
 1 % 5.64 dB  
 .1 % 6.88 dB  
 .01 % 7.60 dB

Date: 2.MAR.2013 10:50:15



<b>Band:</b>	LTE Band 4	<b>Bandwidth:</b>	20MHz
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Peak-to-Average Ratio for QPSK-RB Size 100, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

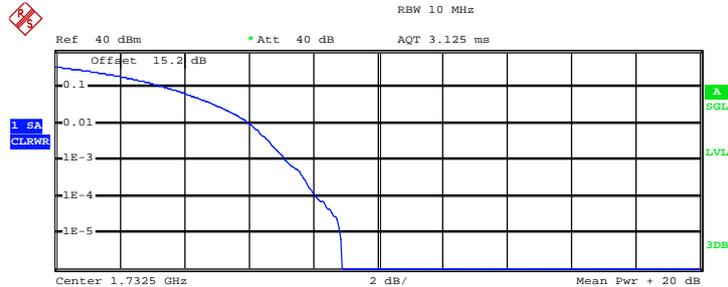
Trace 1

Mean 16.42 dBm  
 Peak 23.83 dBm  
 Crest 7.41 dB

10 % 3.32 dB  
 1 % 5.32 dB  
 .1 % 6.32 dB  
 .01 % 7.00 dB

Date: 2.MAR.2013 10:51:01

Peak-to-Average Ratio for 16QAM-RB Size 100, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 15.41 dBm  
 Peak 24.32 dBm  
 Crest 8.91 dB

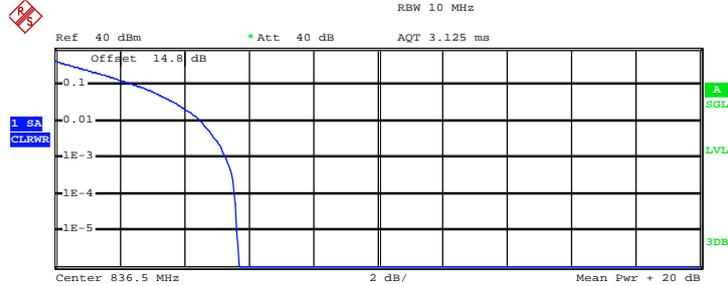
10 % 3.52 dB  
 1 % 6.04 dB  
 .1 % 7.16 dB  
 .01 % 8.12 dB

Date: 2.MAR.2013 10:51:23



<b>Band:</b>	LTE Band 5	<b>Bandwidth:</b>	1.4MHz
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Peak-to-Average Ratio for QPSK-RB Size 6, RB Offset 0



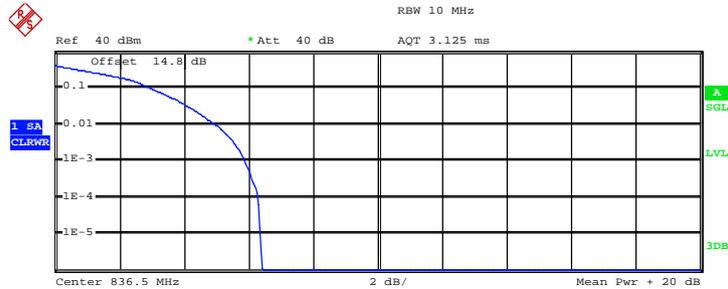
Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
Mean 22.57 dBm  
Peak 28.27 dBm  
Crest 5.70 dB

10 % 2.56 dB  
1 % 4.52 dB  
.1 % 5.32 dB  
.01 % 5.56 dB

Date: 2.MAR.2013 10:33:35

Peak-to-Average Ratio for 16QAM-RB Size 6, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
Mean 21.80 dBm  
Peak 28.20 dBm  
Crest 6.40 dB

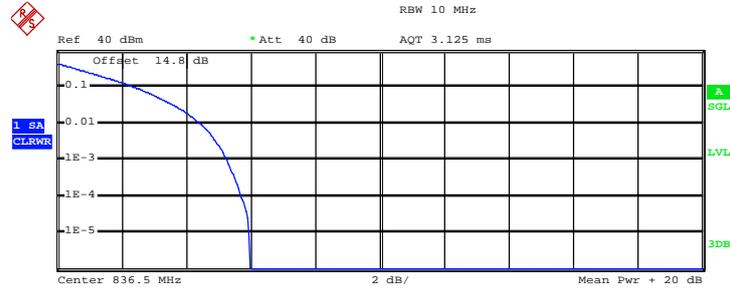
10 % 3.00 dB  
1 % 5.00 dB  
.1 % 5.88 dB  
.01 % 6.28 dB

Date: 2.MAR.2013 10:33:46



<b>Band:</b>	LTE Band 5	<b>Bandwidth:</b>	3MHz
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Peak-to-Average Ratio for QPSK-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

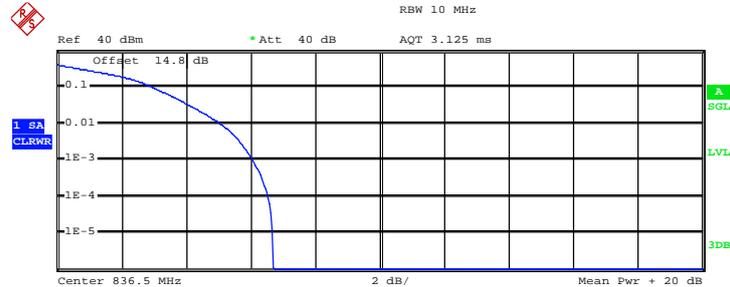
Trace 1

Mean 22.51 dBm  
 Peak 28.48 dBm  
 Crest 5.97 dB

10 % 2.48 dB  
 1 % 4.44 dB  
 .1 % 5.28 dB  
 .01 % 5.72 dB

Date: 2.MAR.2013 10:34:18

Peak-to-Average Ratio for 16QAM-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.51 dBm  
 Peak 28.20 dBm  
 Crest 6.69 dB

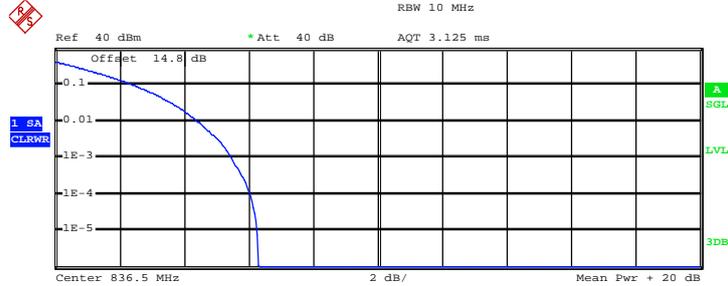
10 % 3.00 dB  
 1 % 5.08 dB  
 .1 % 6.08 dB  
 .01 % 6.56 dB

Date: 2.MAR.2013 10:34:04



<b>Band:</b>	LTE Band 5	<b>Bandwidth:</b>	5MHz
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Peak-to-Average Ratio for QPSK-RB Size 25, RB Offset 0



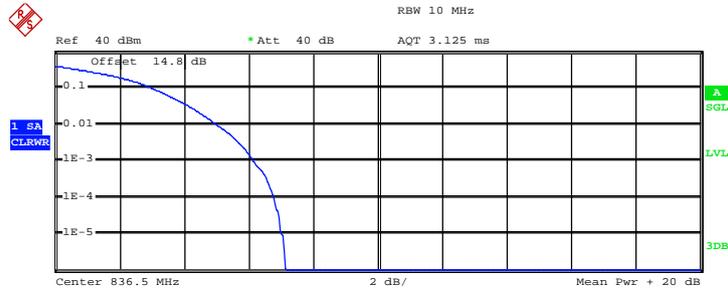
Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
Mean 22.40 dBm  
Peak 28.70 dBm  
Crest 6.29 dB

10 % 2.48 dB  
1 % 4.44 dB  
.1 % 5.48 dB  
.01 % 6.04 dB

Date: 2.MAR.2013 10:34:40

Peak-to-Average Ratio for 16QAM-RB Size 25, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
Mean 21.42 dBm  
Peak 28.55 dBm  
Crest 7.13 dB

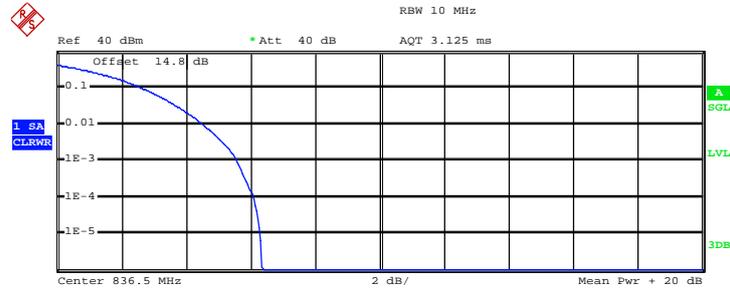
10 % 3.08 dB  
1 % 5.04 dB  
.1 % 6.16 dB  
.01 % 6.80 dB

Date: 2.MAR.2013 10:34:59



<b>Band:</b>	LTE Band 5	<b>Bandwidth:</b>	10MHz
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**Peak-to-Average Ratio for QPSK-RB Size 50, RB Offset 0**



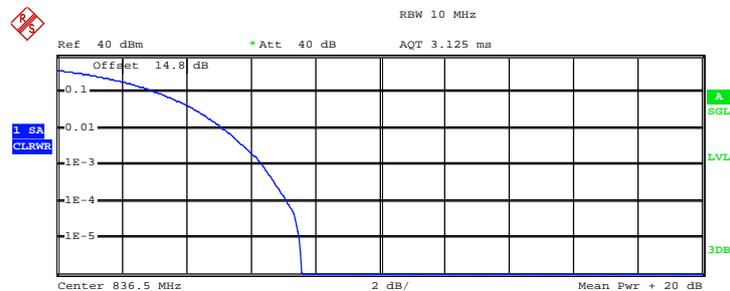
Center 836.5 MHz 2 dB/ Mean Pwr + 20 dB

Complementary Cumulative Distribution Function (100000 samples)  
 Trace 1  
 Mean 21.92 dBm  
 Peak 28.27 dBm  
 Crest 6.36 dB

10 %	2.68 dB
1 %	4.56 dB
.1 %	5.56 dB
.01 %	6.12 dB

Date: 2.MAR.2013 10:35:59

**Peak-to-Average Ratio for 16QAM-RB Size 50, RB Offset 0**



Center 836.5 MHz 2 dB/ Mean Pwr + 20 dB

Complementary Cumulative Distribution Function (100000 samples)  
 Trace 1  
 Mean 20.91 dBm  
 Peak 28.48 dBm  
 Crest 7.57 dB

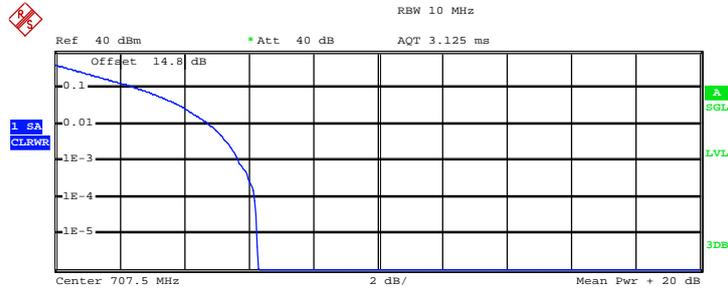
10 %	3.16 dB
1 %	5.16 dB
.1 %	6.40 dB
.01 %	7.16 dB

Date: 2.MAR.2013 10:35:44



<b>Band:</b>	LTE Band 12	<b>Bandwidth:</b>	1.4MHz
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Peak-to-Average Ratio for QPSK-RB Size 6, RB Offset 0



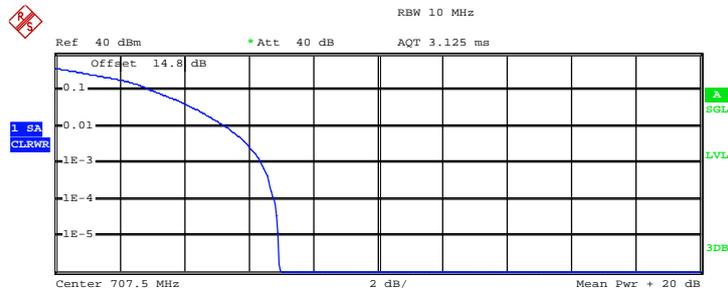
Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
 Mean 23.06 dBm  
 Peak 29.33 dBm  
 Crest 6.27 dB

10 % 2.60 dB  
 1 % 4.80 dB  
 .1 % 5.68 dB  
 .01 % 6.20 dB

Date: 2.MAR.2013 10:26:33

Peak-to-Average Ratio for 16QAM-RB Size 6, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
 Mean 22.10 dBm  
 Peak 29.05 dBm  
 Crest 6.95 dB

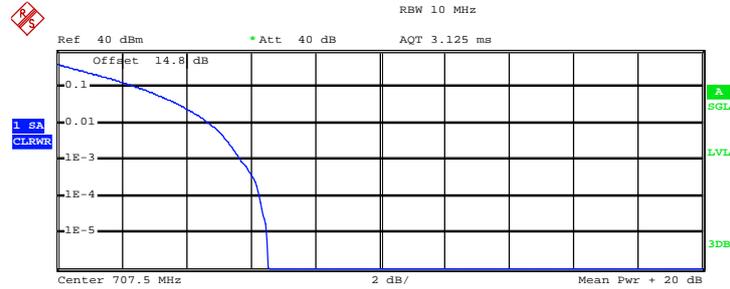
10 % 3.08 dB  
 1 % 5.32 dB  
 .1 % 6.40 dB  
 .01 % 6.80 dB

Date: 2.MAR.2013 10:26:46



<b>Band:</b>	LTE Band 12	<b>Bandwidth:</b>	3MHz
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Peak-to-Average Ratio for QPSK-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

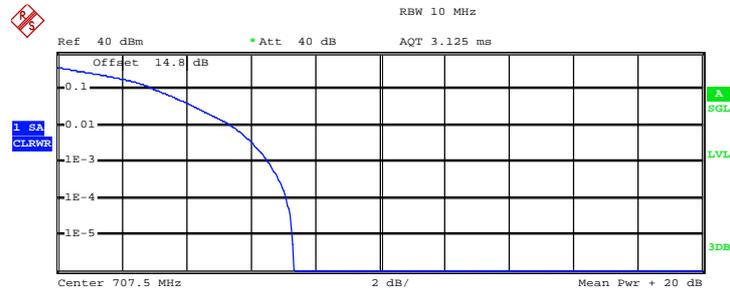
Trace 1

Mean 23.01 dBm  
 Peak 29.54 dBm  
 Crest 6.53 dB

10 % 2.56 dB  
 1 % 4.76 dB  
 .1 % 5.72 dB  
 .01 % 6.28 dB

Date: 2.MAR.2013 10:27:33

Peak-to-Average Ratio for 16QAM-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.99 dBm  
 Peak 29.33 dBm  
 Crest 7.34 dB

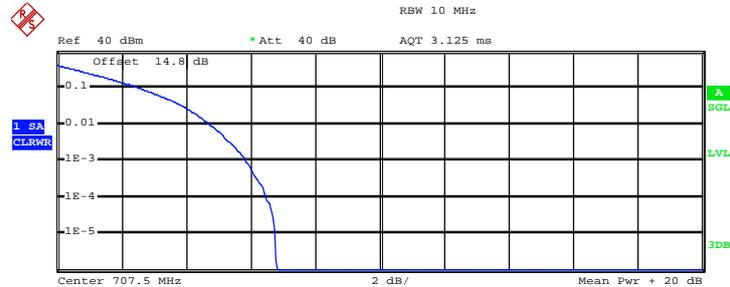
10 % 3.08 dB  
 1 % 5.44 dB  
 .1 % 6.56 dB  
 .01 % 7.12 dB

Date: 2.MAR.2013 10:27:17



<b>Band:</b>	LTE Band 12	<b>Bandwidth:</b>	5MHz
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Peak-to-Average Ratio for QPSK-RB Size 25, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

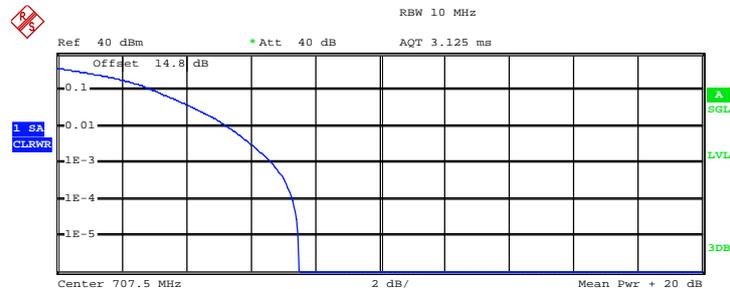
Trace 1

Mean 22.89 dBm  
 Peak 29.68 dBm  
 Crest 6.79 dB

10 % 2.60 dB  
 1 % 4.76 dB  
 .1 % 5.88 dB  
 .01 % 6.48 dB

Date: 2.MAR.2013 10:27:55

Peak-to-Average Ratio for 16QAM-RB Size 25, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.84 dBm  
 Peak 29.33 dBm  
 Crest 7.49 dB

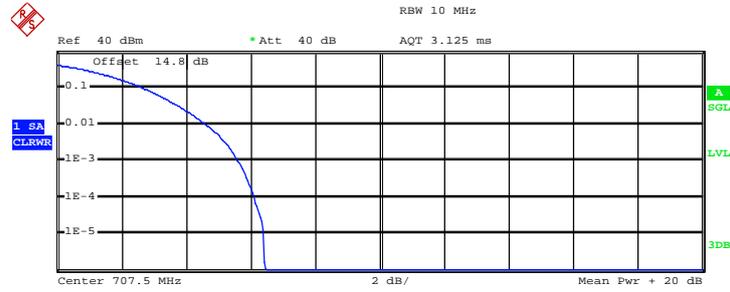
10 % 3.04 dB  
 1 % 5.32 dB  
 .1 % 6.68 dB  
 .01 % 7.32 dB

Date: 2.MAR.2013 10:28:05



<b>Band:</b>	LTE Band 12	<b>Bandwidth:</b>	10MHz
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Peak-to-Average Ratio for QPSK-RB Size 50, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
Mean 22.40 dBm  
Peak 28.84 dBm  
Crest 6.43 dB

10 % 2.72 dB  
1 % 4.64 dB  
.1 % 5.60 dB  
.01 % 6.12 dB

Date: 2.MAR.2013 10:29:14

Peak-to-Average Ratio for 16QAM-RB Size 50, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
Mean 21.39 dBm  
Peak 29.12 dBm  
Crest 7.73 dB

10 % 3.16 dB  
1 % 5.24 dB  
.1 % 6.48 dB  
.01 % 7.32 dB

Date: 2.MAR.2013 10:29:04

### 3.3 99% Occupied Bandwidth and 26dB Bandwidth Measurement

#### 3.3.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The 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.

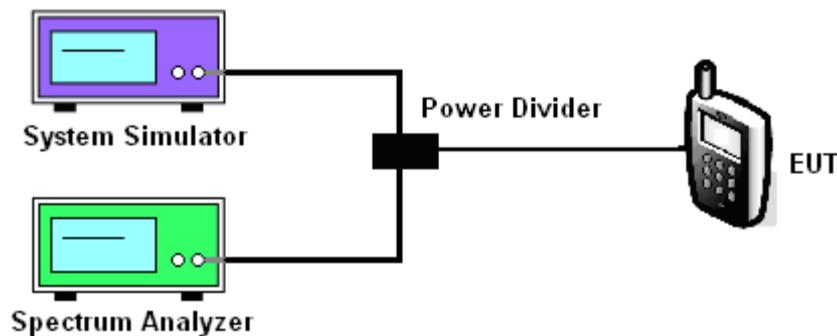
#### 3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.3.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 99% occupied bandwidth and 26 dB bandwidth of the middle channel for the highest RF powers were measured.

#### 3.3.4 Test Setup



3.3.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Band	Band Width	Channel	Frequency (MHz)	Modulation	99%Bandwidth (MHz)	26dB Bandwidth (MHz)
LTE Band 2	1.4MHz	18900	1880	QPSK	1.0976	1.3104
				16-QAM	1.0976	1.3160
	3MHz	18900	1880	QPSK	2.7360	3.1440
				16-QAM	2.7360	3.1440
	5MHz	18900	1880	QPSK	4.5000	5.1200
				16-QAM	4.5200	5.1000
	10MHz	18900	1880	QPSK	9.1600	10.2800
				16-QAM	9.1200	10.2800
	15MHz	18900	1880	QPSK	13.5000	15.0000
				16-QAM	13.5600	15.2400
	20MHz	18900	1880	QPSK	18.0000	19.7600
				16-QAM	18.0000	19.6800
LTE Band 4	1.4MHz	20175	1732.5	QPSK	1.0976	1.2992
				16-QAM	1.0976	1.3216
	3MHz	20175	1732.5	QPSK	2.7240	3.1320
				16-QAM	2.7360	3.1440
	5MHz	20175	1732.5	QPSK	4.5200	5.1200
				16-QAM	4.5200	5.1400
	10MHz	20175	1732.5	QPSK	9.1600	10.3200
				16-QAM	9.1200	10.2800
	15MHz	20175	1732.5	QPSK	13.5000	15.0600
				16-QAM	13.5600	15.2400
	20MHz	20175	1732.5	QPSK	18.0000	19.6800
				16-QAM	18.0800	19.6800



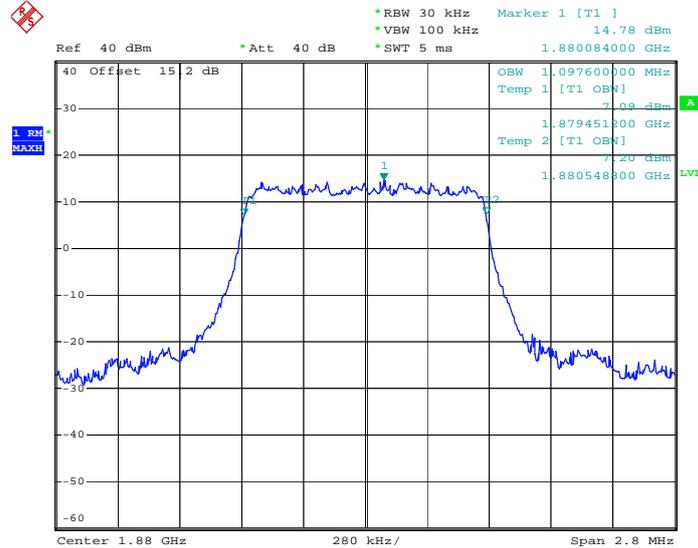
Band	Band Width	Channel	Frequency (MHz)	Modulation	99%Bandwidth (MHz)	26dB Bandwidth (MHz)
LTE Band 5	1.4MHz	20525	836.5	QPSK	1.0976	1.2992
				16-QAM	1.0976	1.3216
	3MHz	20525	836.5	QPSK	2.7360	3.1320
				16-QAM	2.7240	3.1320
	5MHz	20525	836.5	QPSK	4.4800	5.1000
				16-QAM	4.4800	5.1200
10MHz	20525	836.5	QPSK	9.1200	10.2800	
			16-QAM	9.0800	10.2400	
LTE Band 12	1.4MHz	23095	707.5	QPSK	1.0976	1.2992
				16-QAM	1.1032	1.3272
	3MHz	23095	707.5	QPSK	2.7360	3.1560
				16-QAM	2.7240	3.1680
	5MHz	23095	707.5	QPSK	4.5000	5.1400
				16-QAM	4.5200	5.1000
10MHz	23095	707.5	QPSK	9.1600	10.3200	
			16-QAM	9.0800	10.2400	



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

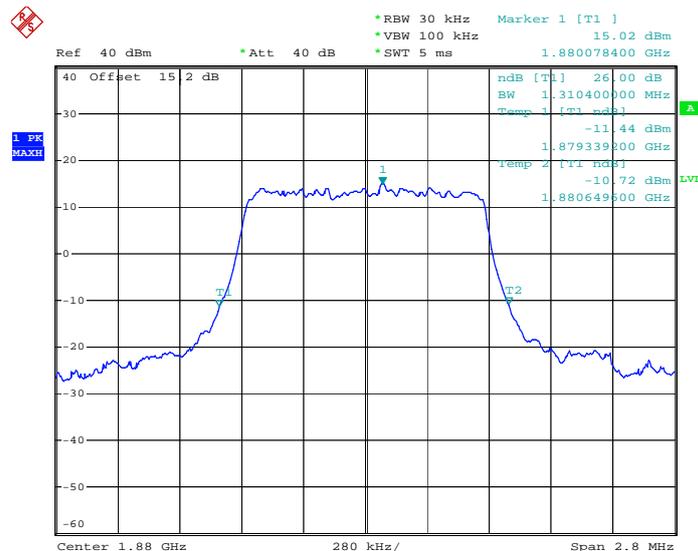
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 6, RB Offset 0**



Date: 16.FEB.2013 21:13:25

**26dB Bandwidth Plot on Channel 18900  
for RB Size 6, RB Offset 0**

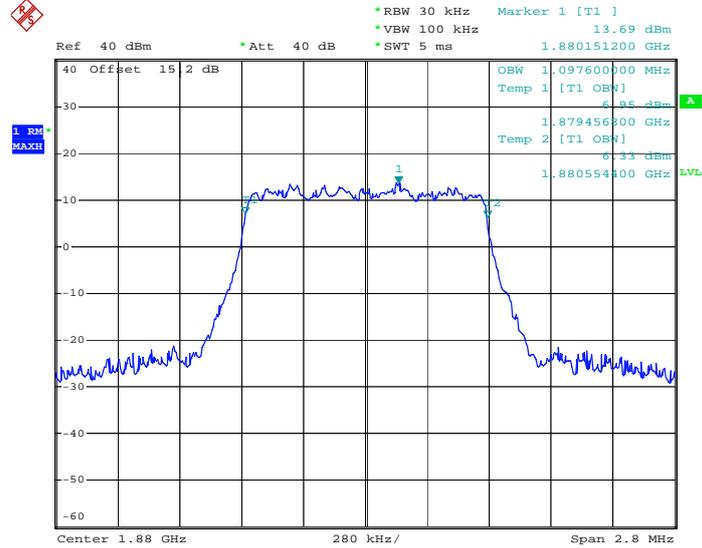


Date: 15.FEB.2013 23:26:11



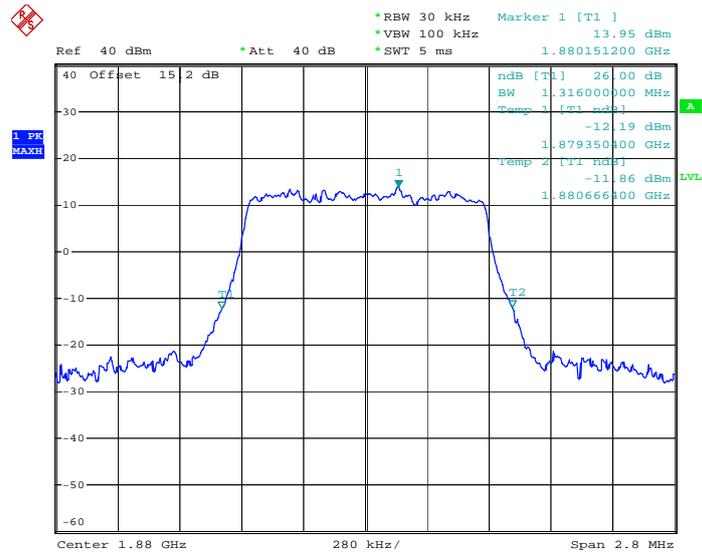
Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 6, RB Offset 0**



Date: 16.FEB.2013 21:13:52

**26dB Bandwidth Plot on Channel 18900  
for RB Size 6, RB Offset 0**

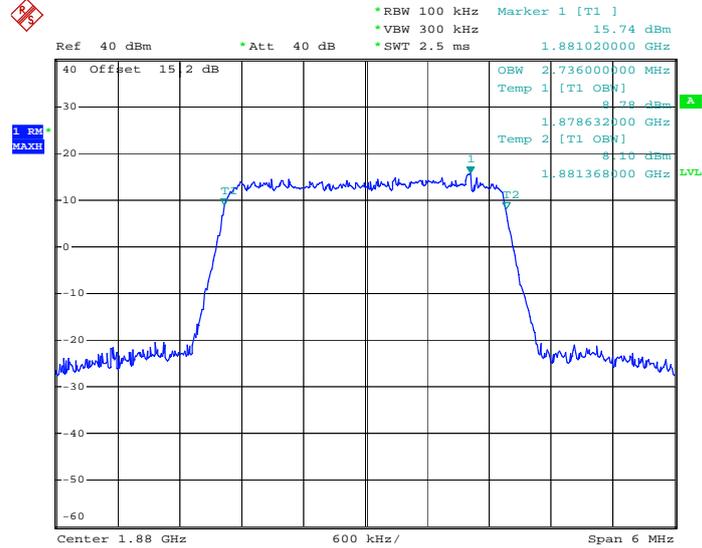


Date: 15.FEB.2013 23:26:47



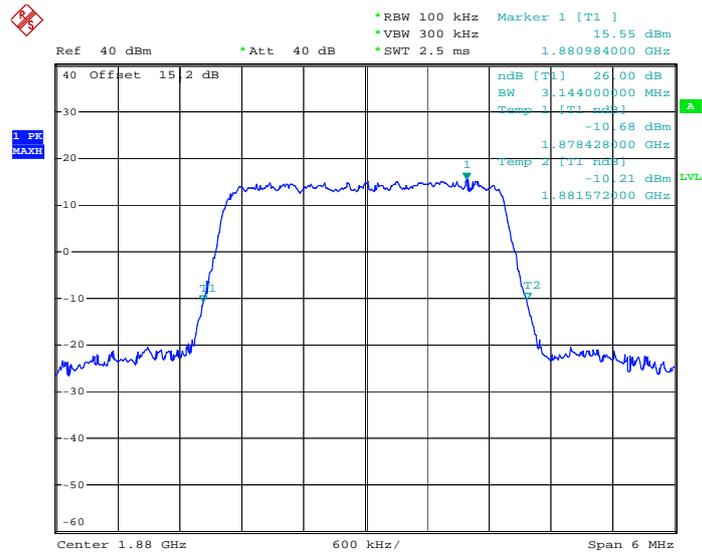
Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 15, RB Offset 0**



Date: 16.FEB.2013 21:29:51

**26dB Bandwidth Plot on Channel 18900  
for RB Size 15, RB Offset 0**

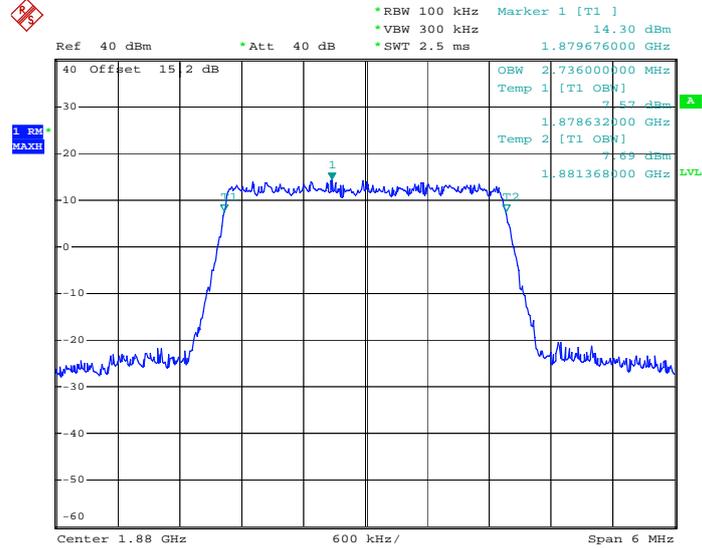


Date: 15.FEB.2013 23:28:44



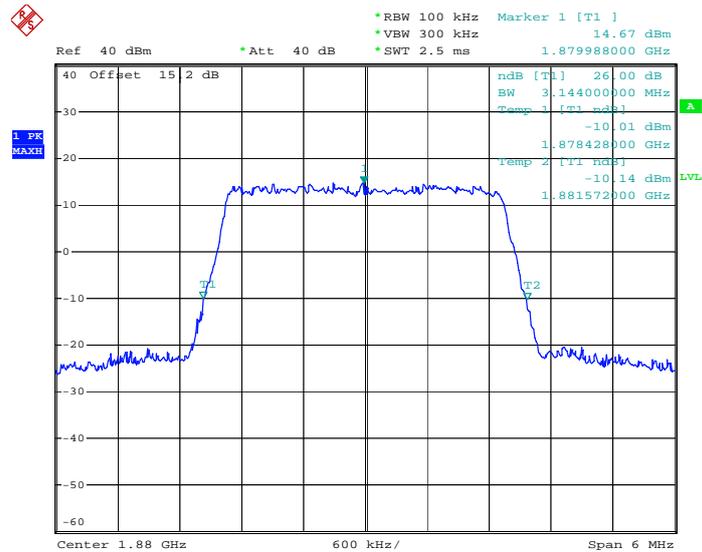
Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 15, RB Offset 0**



Date: 16.FEB.2013 21:30:24

**26dB Bandwidth Plot on Channel 18900  
for RB Size 15, RB Offset 0**

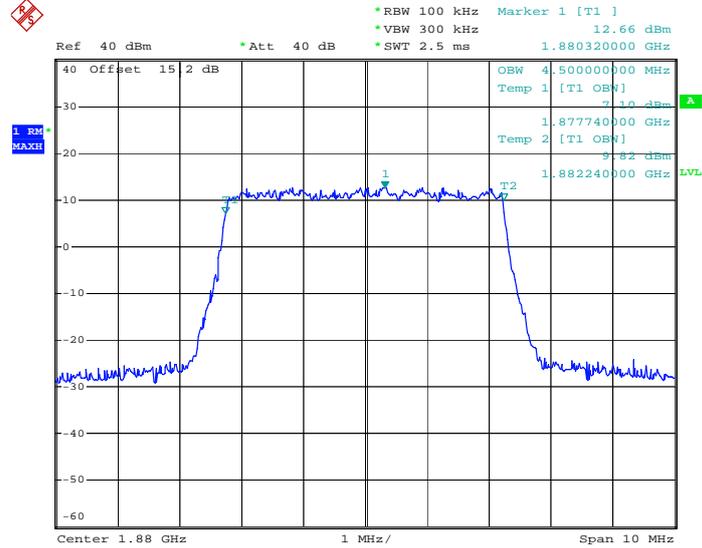


Date: 15.FEB.2013 23:28:10



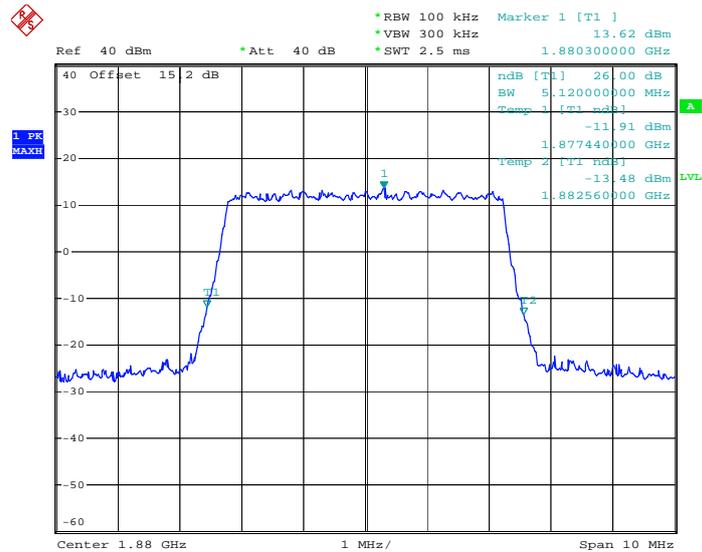
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 25, RB Offset 0**



Date: 16.FEB.2013 21:43:20

**26dB Bandwidth Plot on Channel 18900  
for RB Size 25, RB Offset 0**

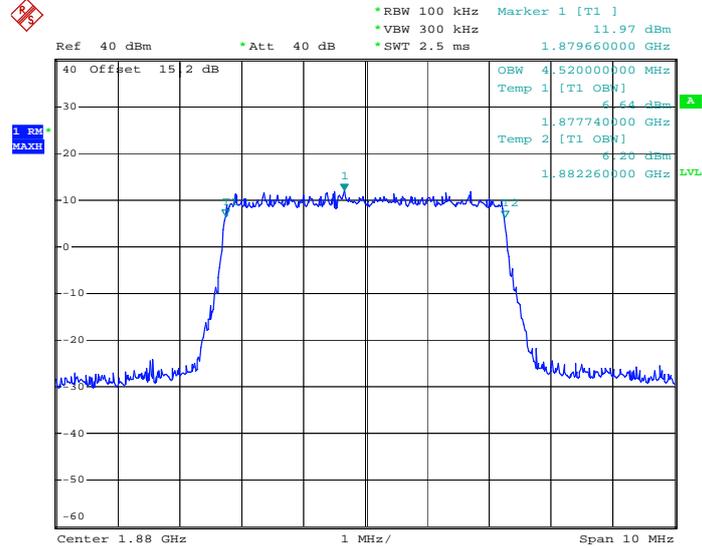


Date: 15.FEB.2013 23:30:06



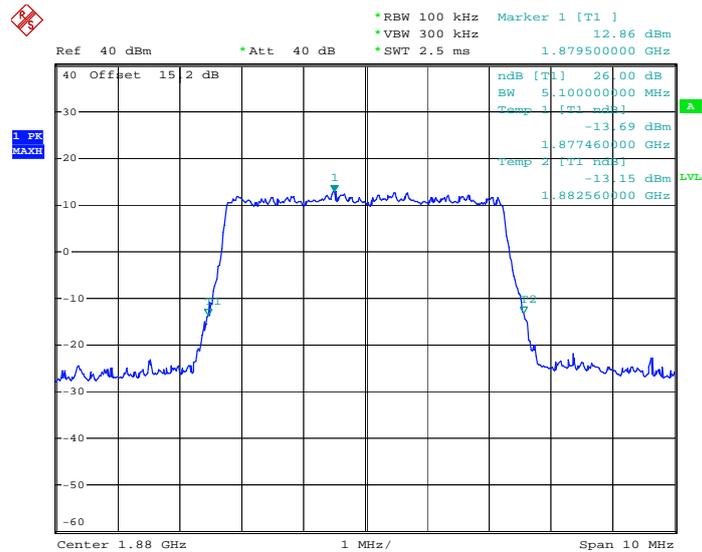
Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 25, RB Offset 0**



Date: 16.FEB.2013 21:42:18

**26dB Bandwidth Plot on Channel 18900  
for RB Size 25, RB Offset 0**

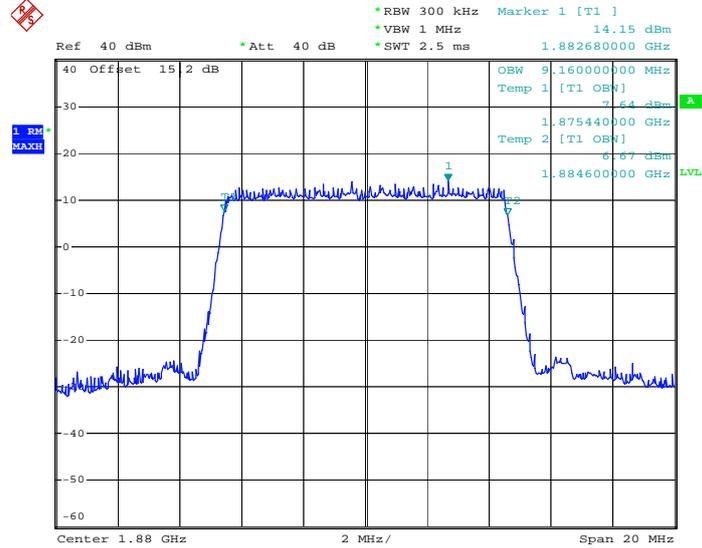


Date: 15.FEB.2013 23:31:30



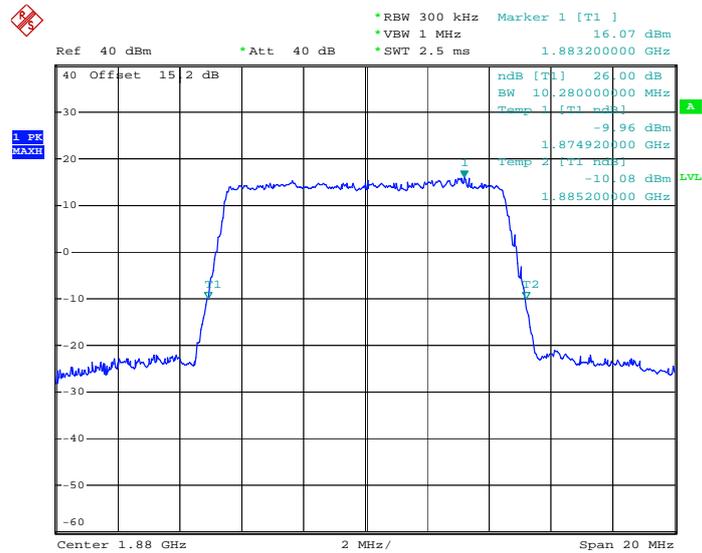
Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 50, RB Offset 0**



Date: 16.FEB.2013 21:55:24

**26dB Bandwidth Plot on Channel 18900  
for RB Size 50, RB Offset 0**

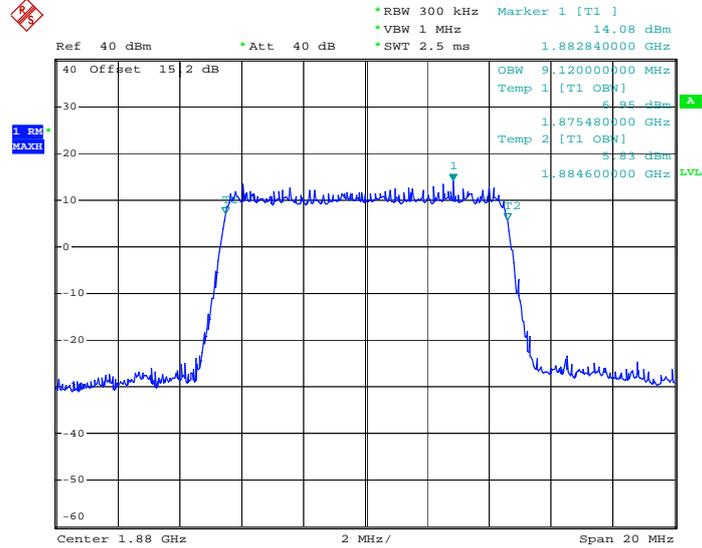


Date: 15.FEB.2013 23:34:48



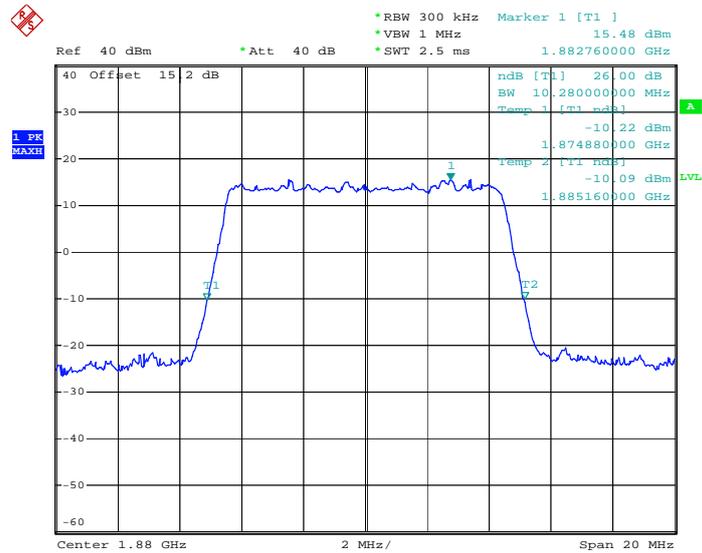
Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 50, RB Offset 0**



Date: 16.FEB.2013 21:54:27

**26dB Bandwidth Plot on Channel 18900  
for RB Size 50, RB Offset 0**

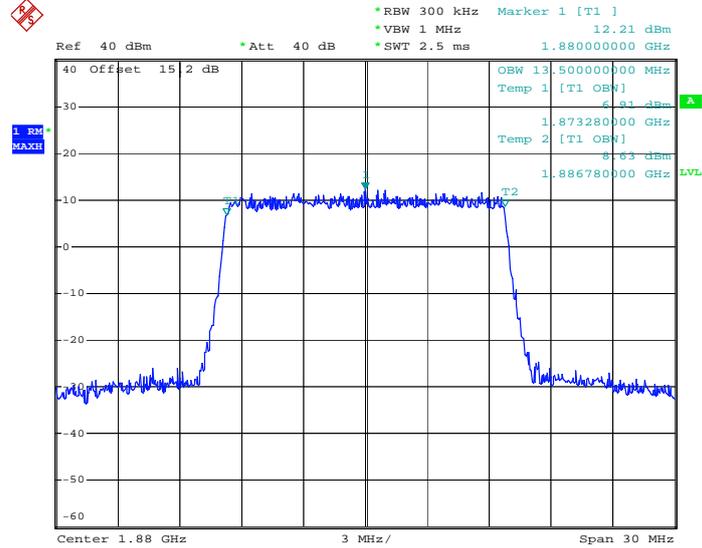


Date: 15.FEB.2013 23:33:37



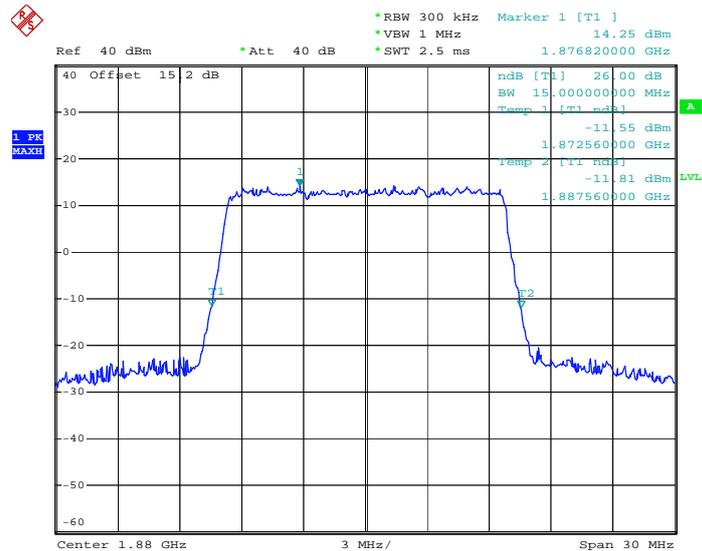
Band :	LTE Band 2	BW / Mod. :	15MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 75, RB Offset 0**



Date: 16.FEB.2013 22:11:55

**26dB Bandwidth Plot on Channel 18900  
for RB Size 75, RB Offset 0**

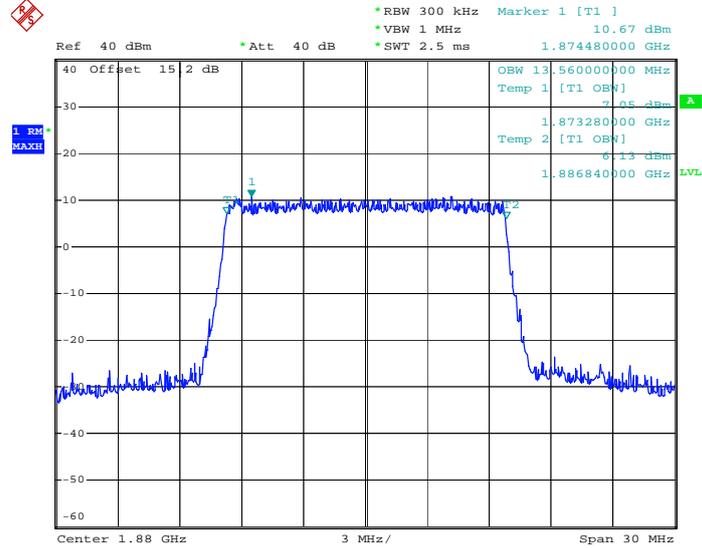


Date: 15.FEB.2013 23:37:14



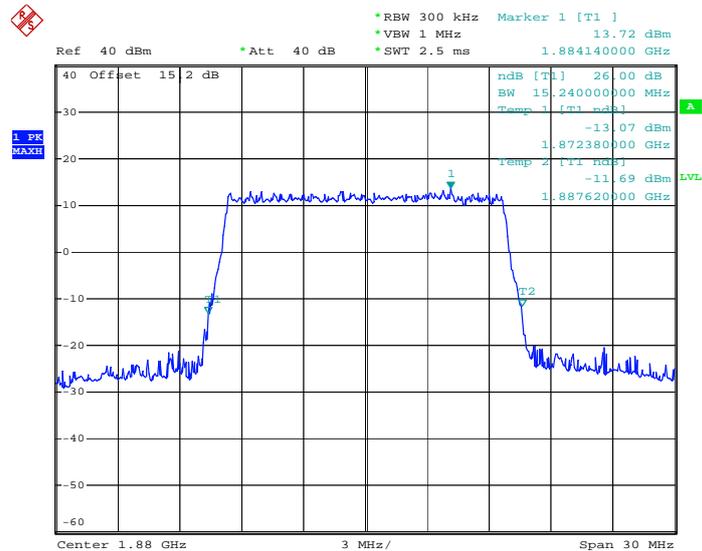
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 75, RB Offset 0**



Date: 16.FEB.2013 22:12:45

**26dB Bandwidth Plot on Channel 18900  
for RB Size 75, RB Offset 0**

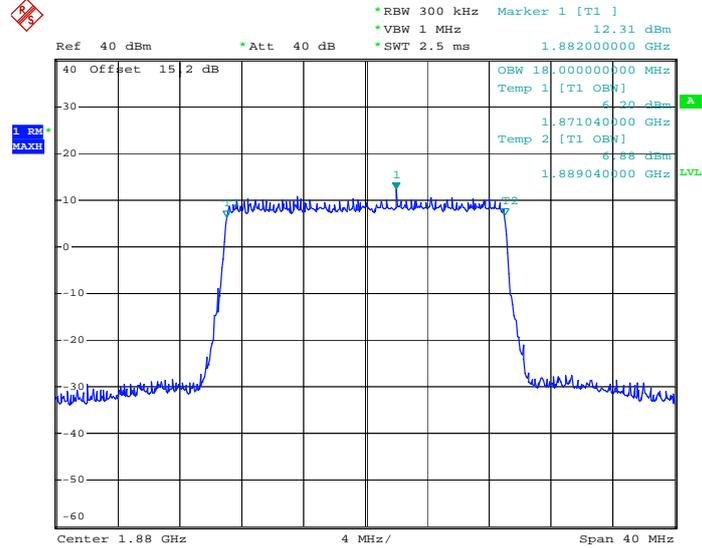


Date: 15.FEB.2013 23:37:39



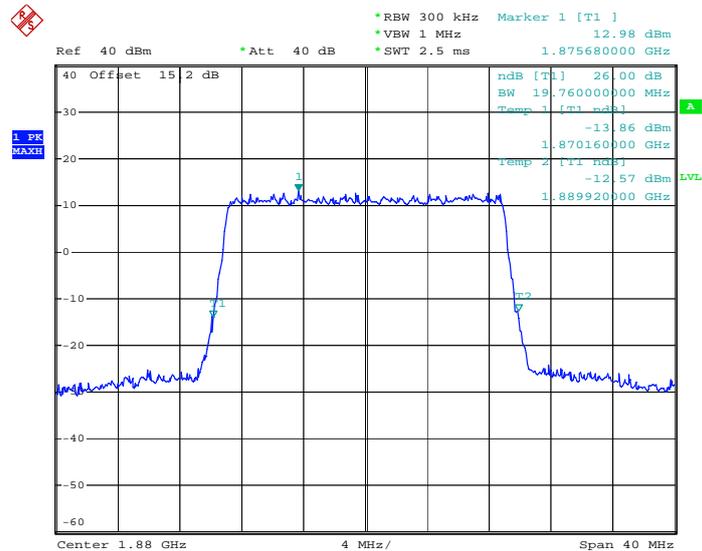
Band :	LTE Band 2	BW / Mod. :	20MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 100, RB Offset 0**



Date: 16.FEB.2013 22:19:30

**26dB Bandwidth Plot on Channel 18900  
for RB Size 100, RB Offset 0**

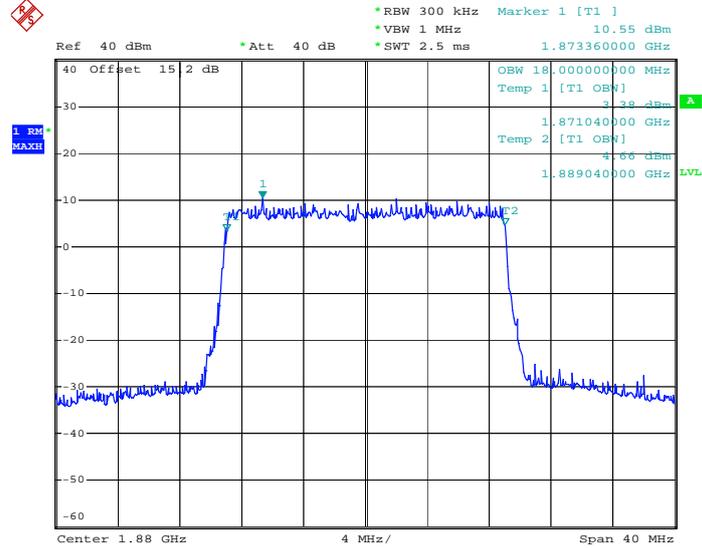


Date: 15.FEB.2013 23:40:08



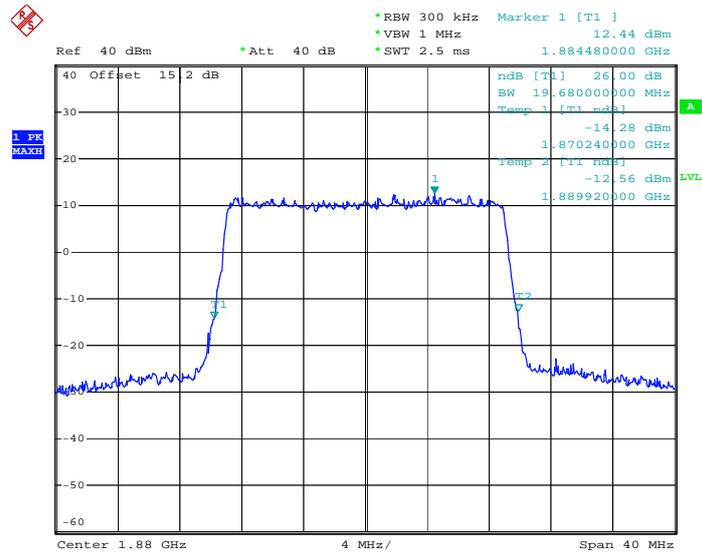
Band :	LTE Band 2	BW / Mod. :	20MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 100, RB Offset 0**



Date: 16.FEB.2013 22:19:49

**26dB Bandwidth Plot on Channel 18900  
for RB Size 100, RB Offset 0**

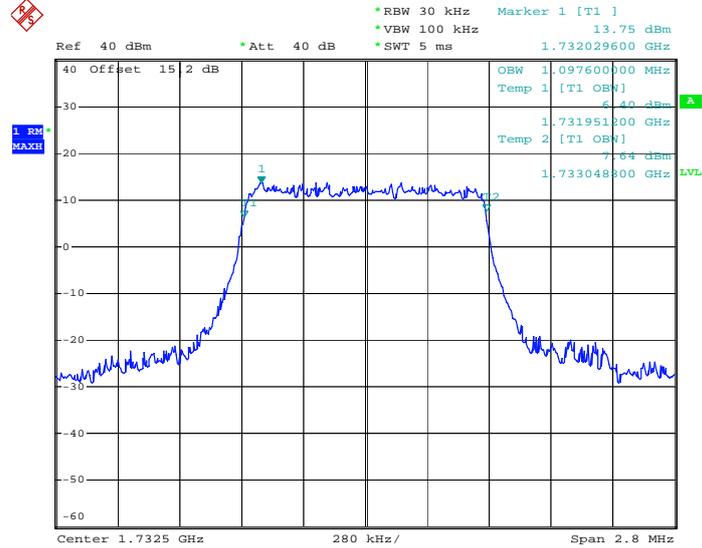


Date: 15.FEB.2013 23:40:30



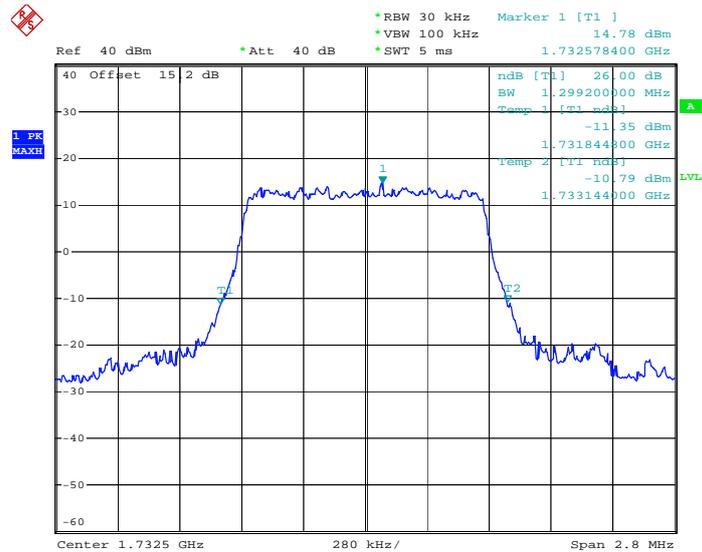
Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 6, RB Offset 0**



Date: 16.FEB.2013 20:40:02

**26dB Bandwidth Plot on Channel 20175  
for RB Size 6, RB Offset 0**

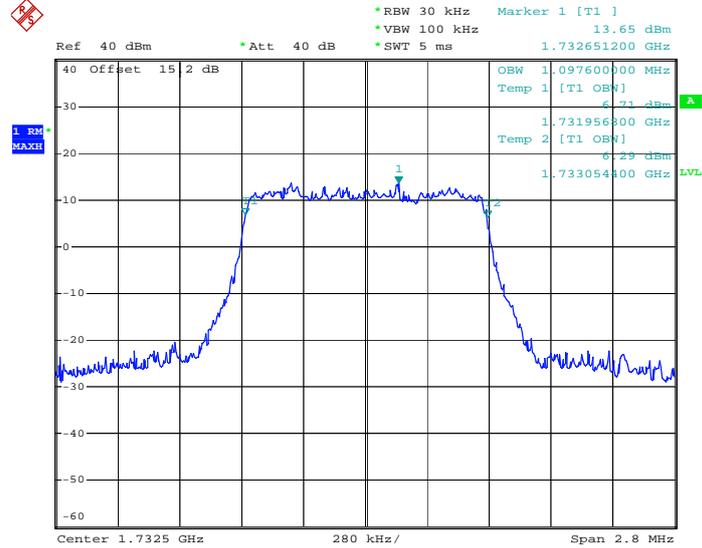


Date: 15.FEB.2013 23:55:34



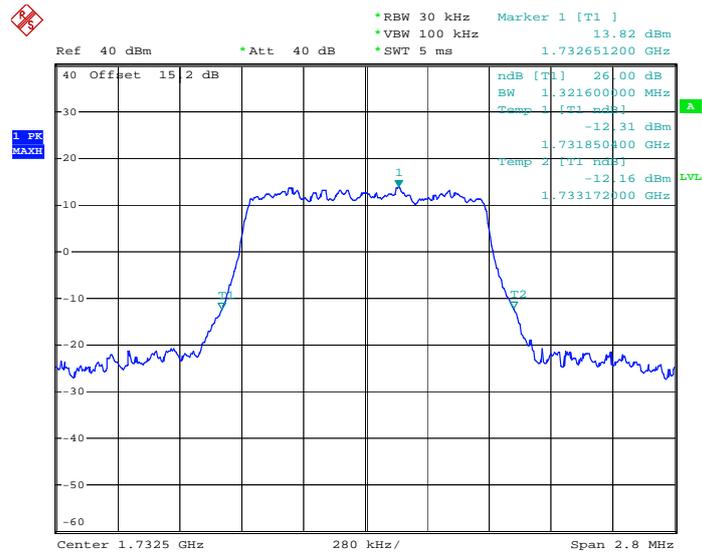
Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 6, RB Offset 0**



Date: 16.FEB.2013 20:39:42

**26dB Bandwidth Plot on Channel 20175  
for RB Size 6, RB Offset 0**

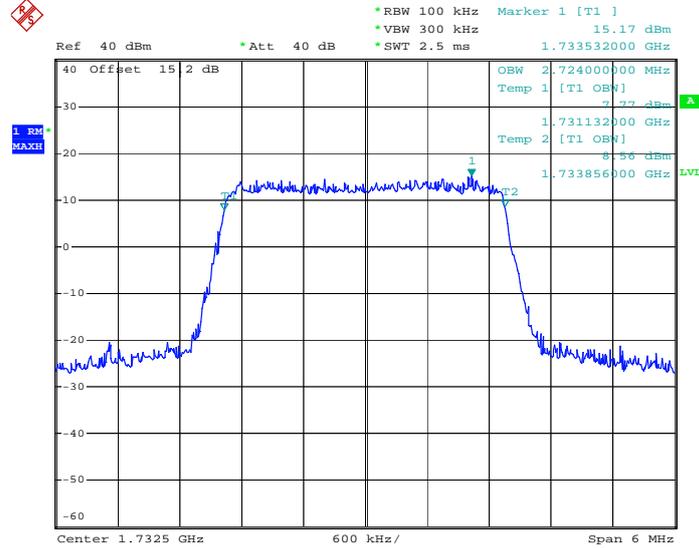


Date: 15.FEB.2013 23:55:13



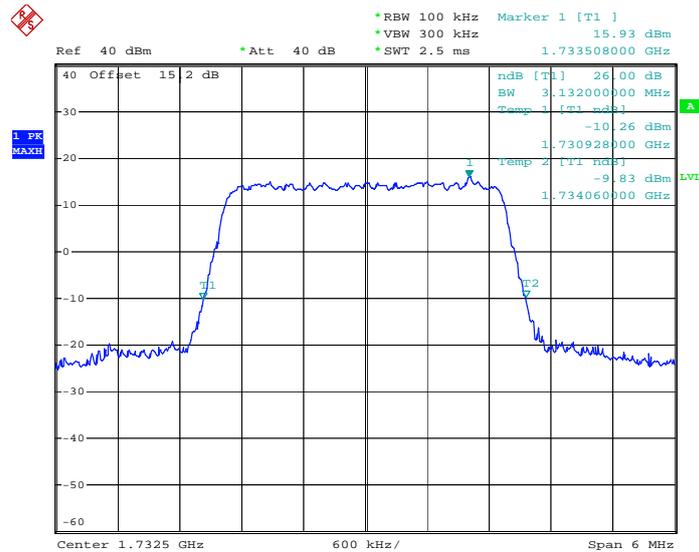
Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 15, RB Offset 0**



Date: 16.FEB.2013 20:44:03

**26dB Bandwidth Plot on Channel 20175  
for RB Size 15, RB Offset 0**

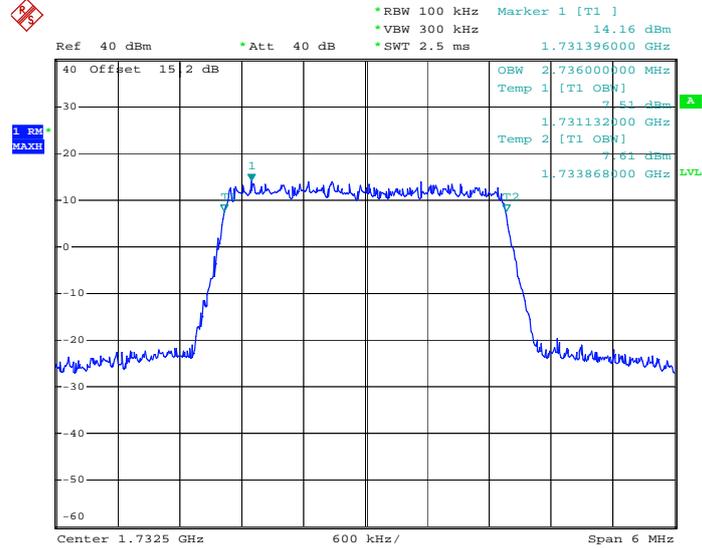


Date: 16.FEB.2013 00:21:39



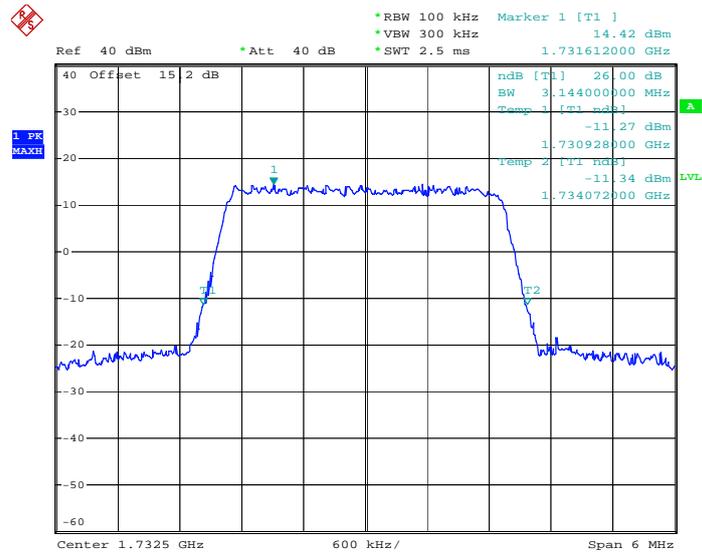
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 15, RB Offset 0**



Date: 16.FEB.2013 20:43:46

**26dB Bandwidth Plot on Channel 20175  
for RB Size 15, RB Offset 0**

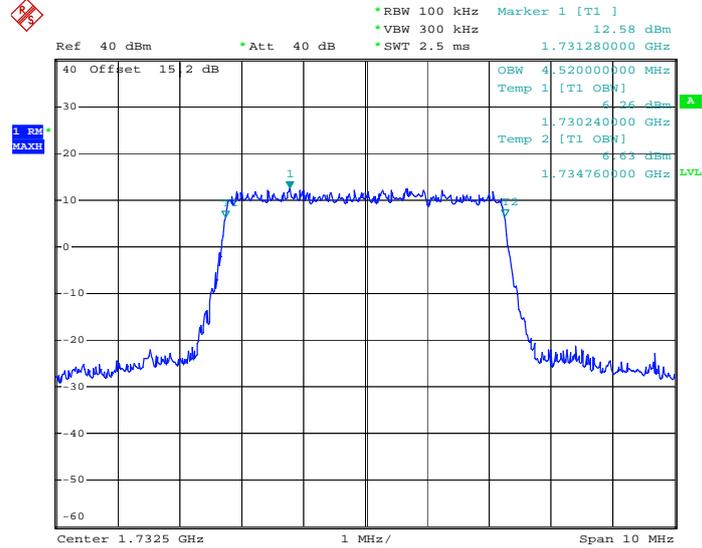


Date: 16.FEB.2013 00:12:23



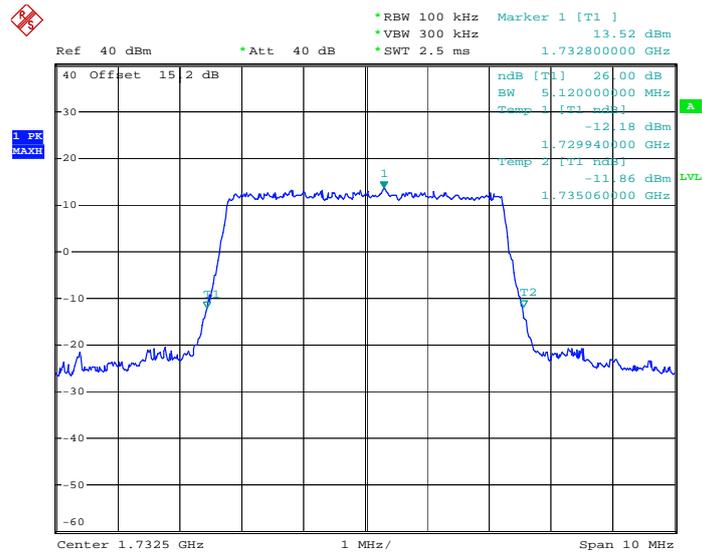
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 25, RB Offset 0**



Date: 16.FEB.2013 20:47:48

**26dB Bandwidth Plot on Channel 20175  
for RB Size 25, RB Offset 0**

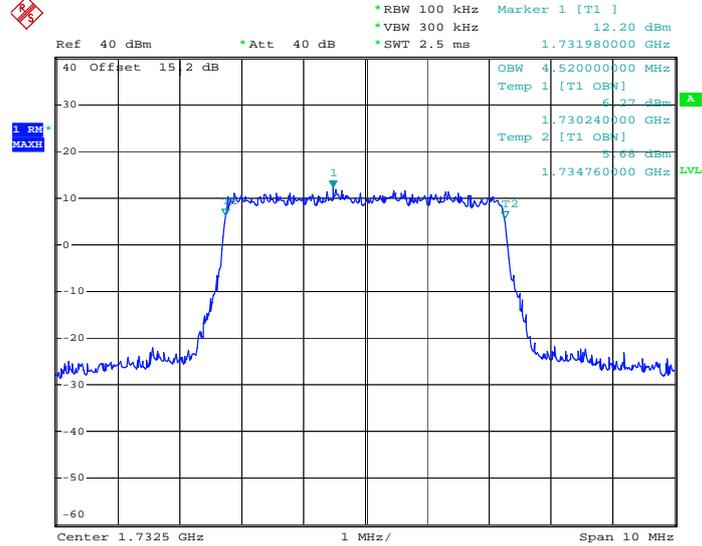


Date: 16.FEB.2013 00:14:05



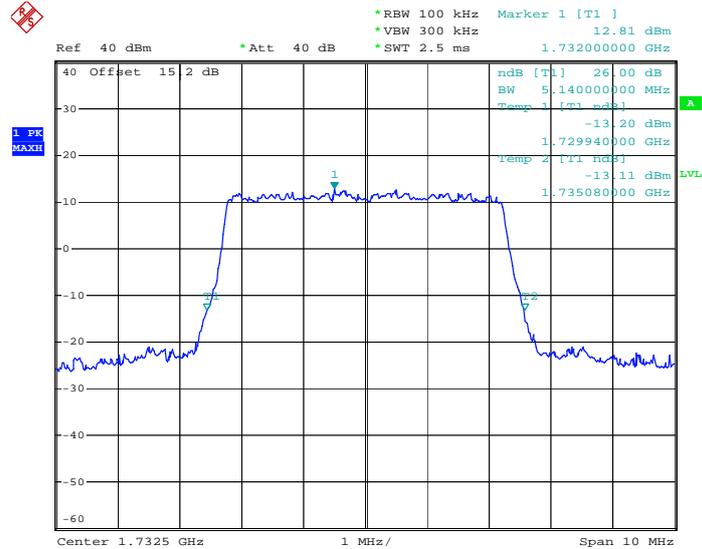
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 25, RB Offset 0**



Date: 16.FEB.2013 20:47:26

**26dB Bandwidth Plot on Channel 20175  
for RB Size 25, RB Offset 0**

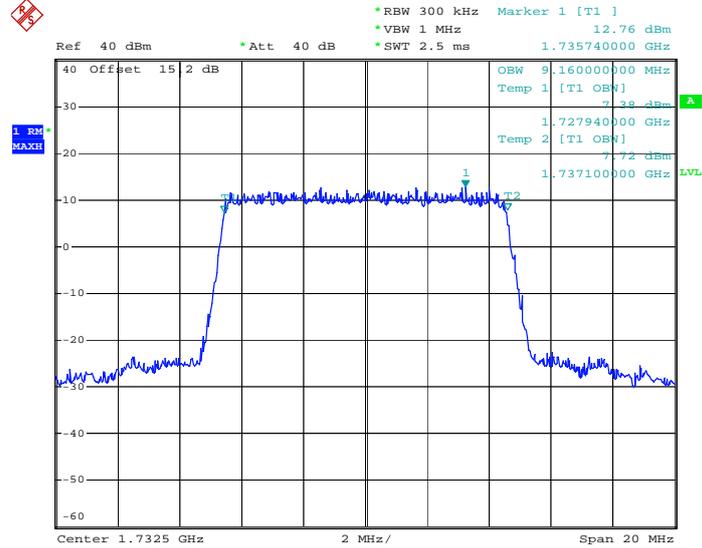


Date: 16.FEB.2013 00:13:21



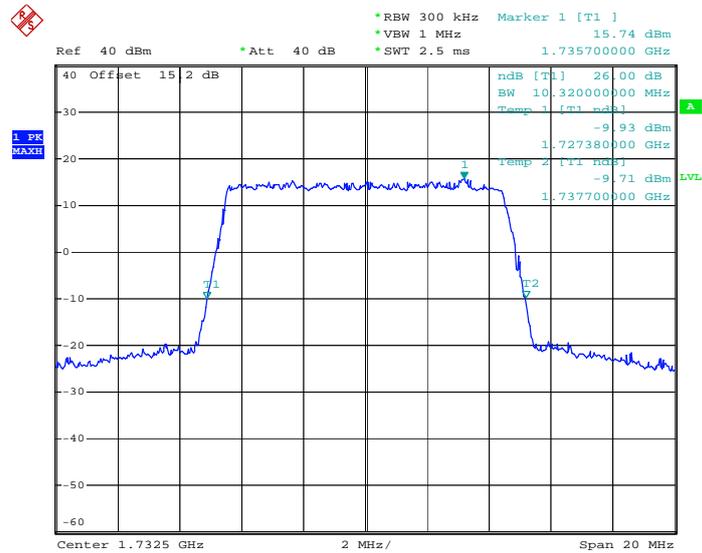
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 50, RB Offset 0**



Date: 16.FEB.2013 20:51:16

**26dB Bandwidth Plot on Channel 20175  
for RB Size 50, RB Offset 0**

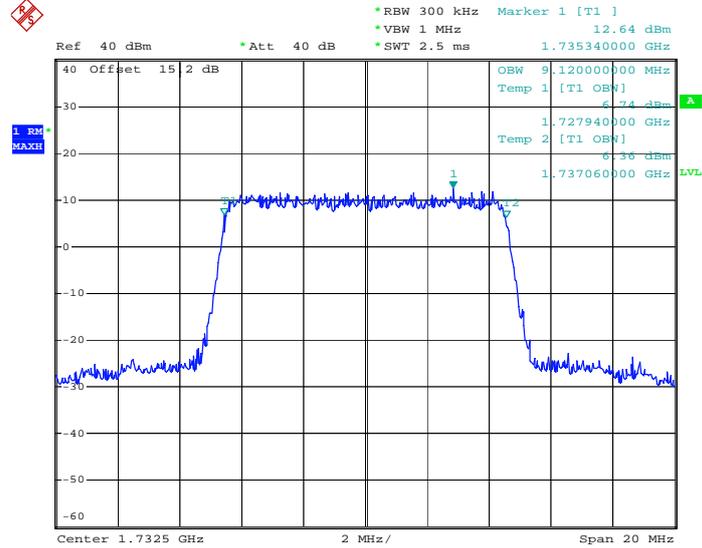


Date: 16.FEB.2013 00:15:14



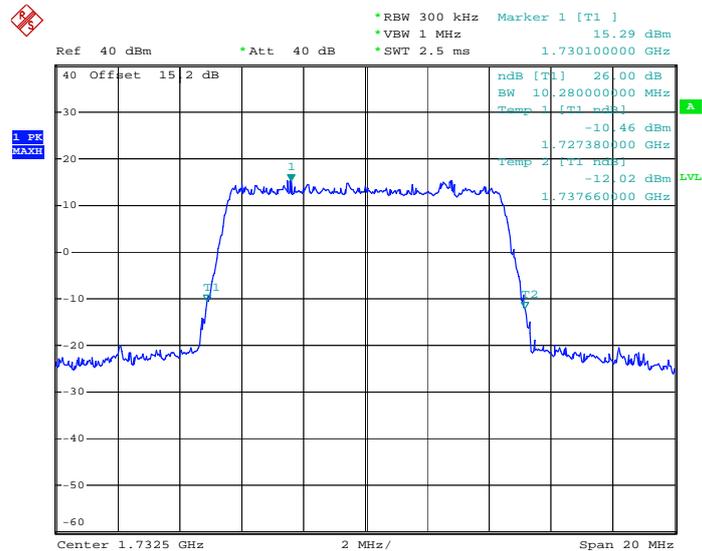
Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 50, RB Offset 0**



Date: 16.FEB.2013 20:51:01

**26dB Bandwidth Plot on Channel 20175  
for RB Size 50, RB Offset 0**

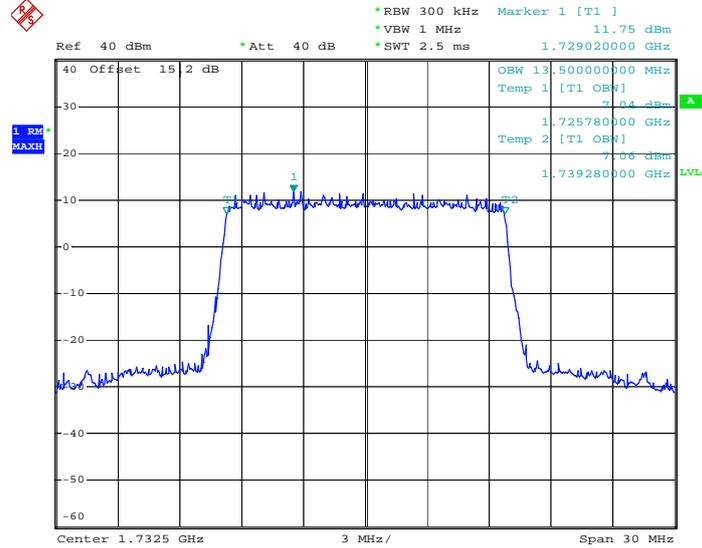


Date: 16.FEB.2013 00:15:37



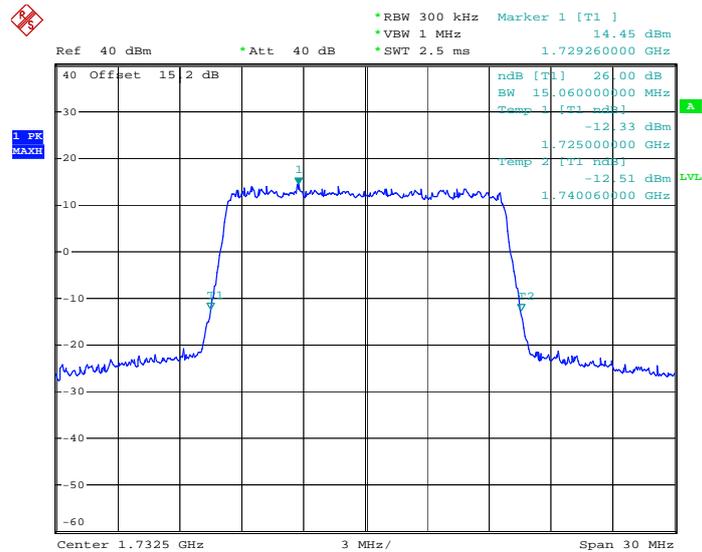
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 75, RB Offset 0**



Date: 16.FEB.2013 20:55:28

**26dB Bandwidth Plot on Channel 20175  
for RB Size 75, RB Offset 0**

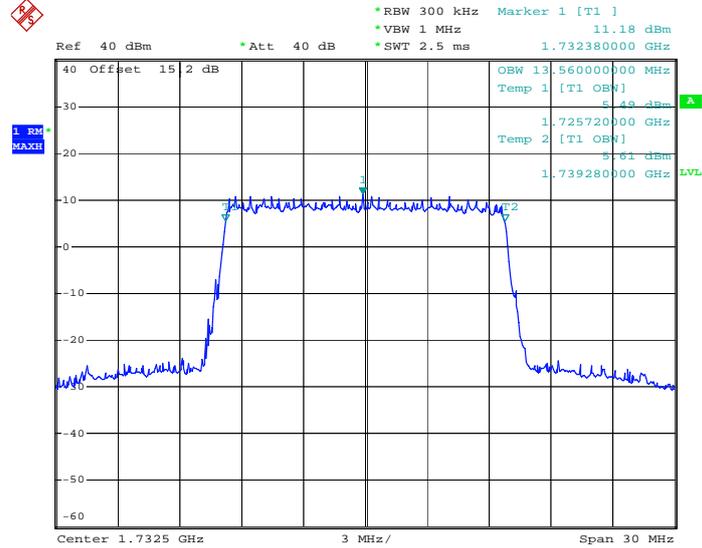


Date: 16.FEB.2013 00:16:42



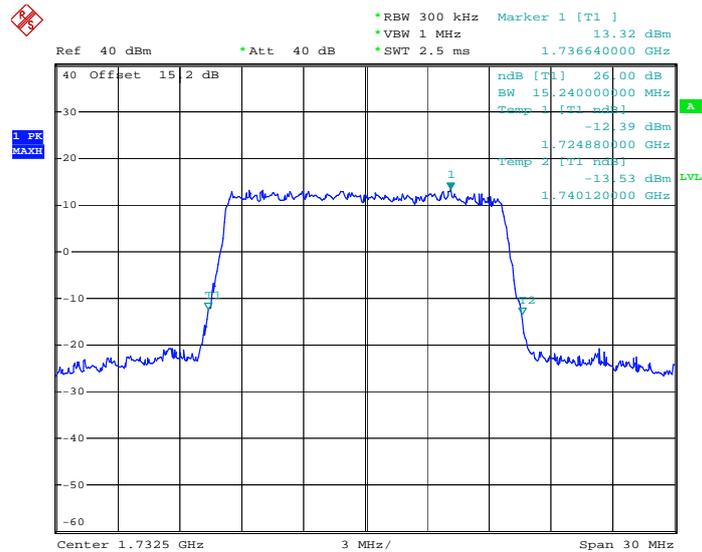
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 75, RB Offset 0**



Date: 16.FEB.2013 20:55:08

**26dB Bandwidth Plot on Channel 20175  
for RB Size 75, RB Offset 0**

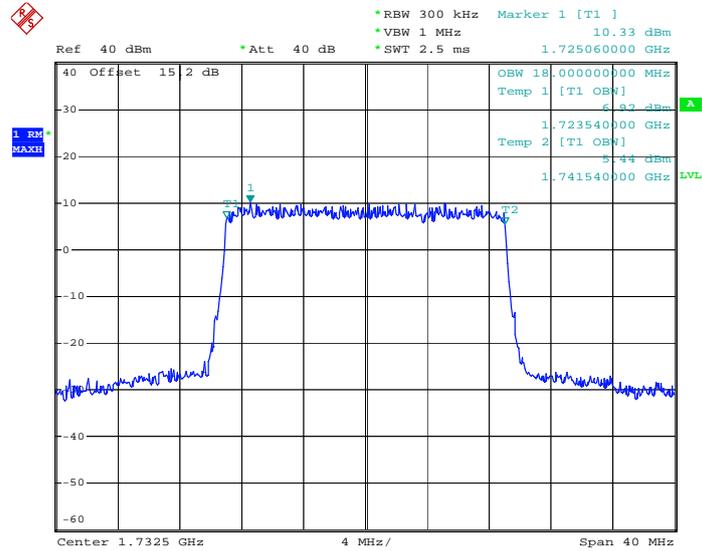


Date: 16.FEB.2013 00:16:14



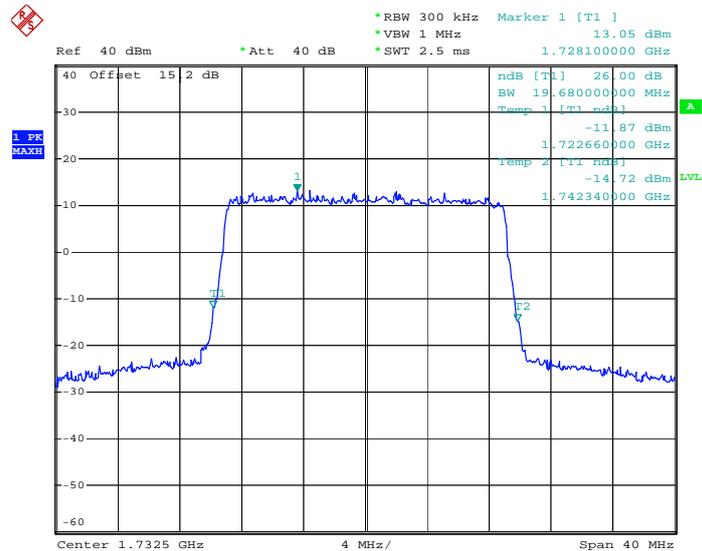
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 100, RB Offset 0**



Date: 16.FEB.2013 20:59:39

**26dB Bandwidth Plot on Channel 20175  
for RB Size 100, RB Offset 0**

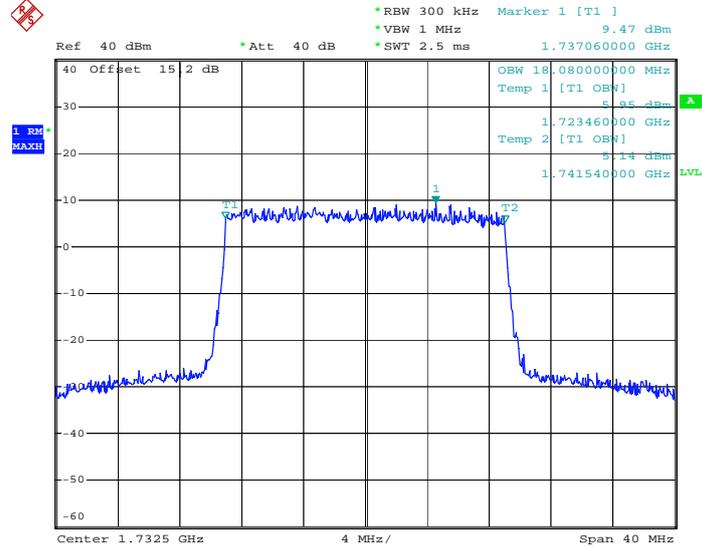


Date: 16.FEB.2013 00:18:24



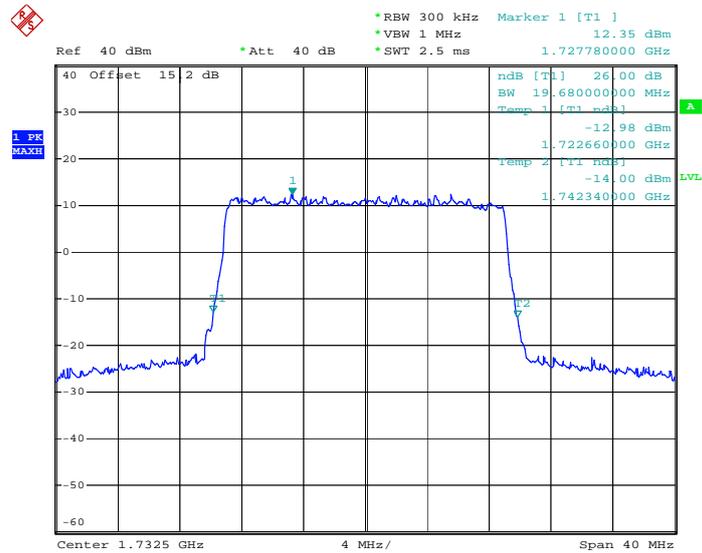
Band :	LTE Band 4	BW / Mod. :	20MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 100, RB Offset 0**



Date: 16.FEB.2013 20:59:55

**26dB Bandwidth Plot on Channel 20175  
for RB Size 100, RB Offset 0**

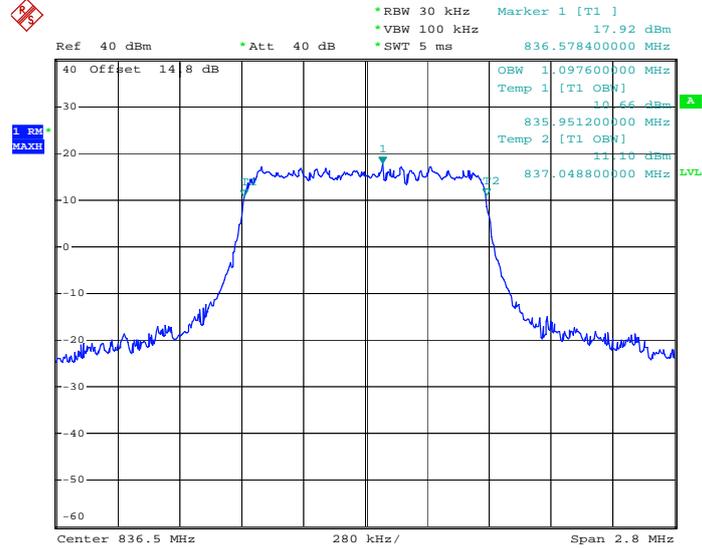


Date: 16.FEB.2013 00:18:04



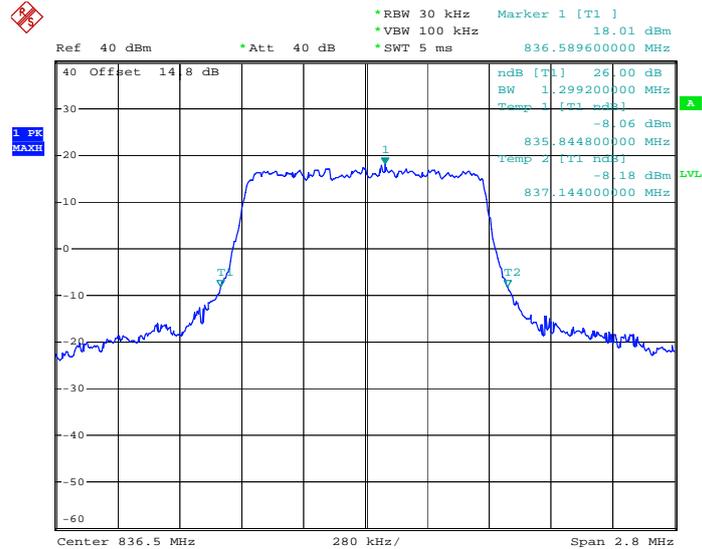
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 6, RB Offset 0**



Date: 16.FEB.2013 18:01:40

**26dB Bandwidth Plot on Channel 20525  
for RB Size 6, RB Offset 0**

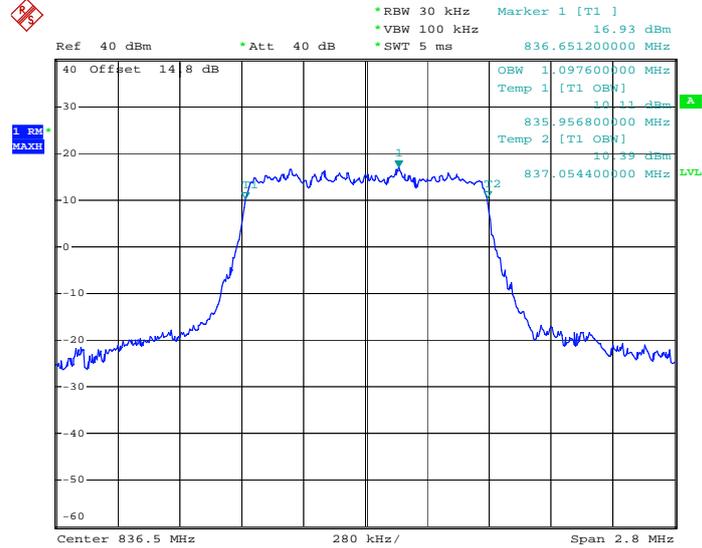


Date: 16.FEB.2013 22:44:48



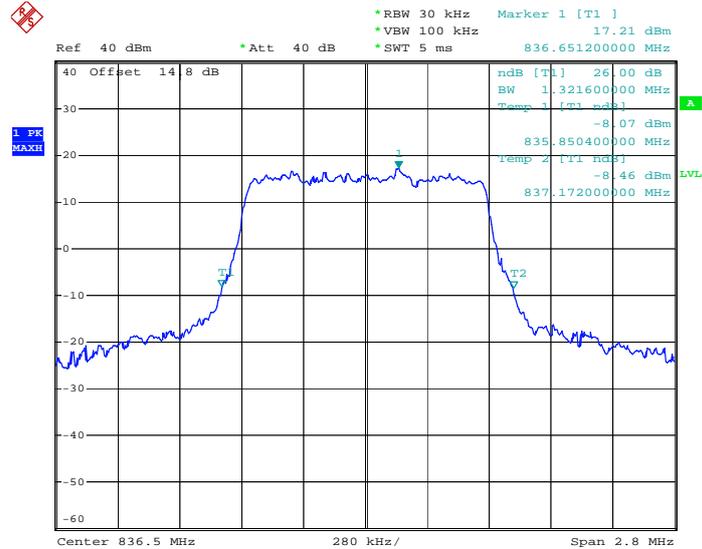
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 6, RB Offset 0**



Date: 16.FEB.2013 18:02:17

**26dB Bandwidth Plot on Channel 20525  
for RB Size 6, RB Offset 0**

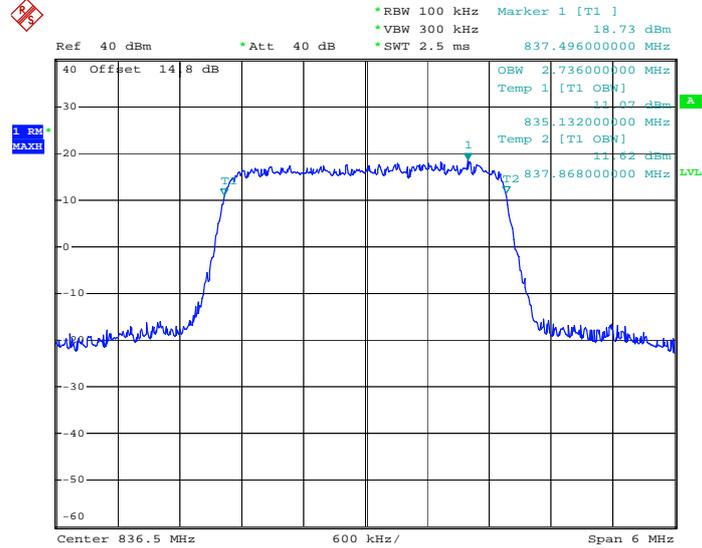


Date: 16.FEB.2013 22:44:22



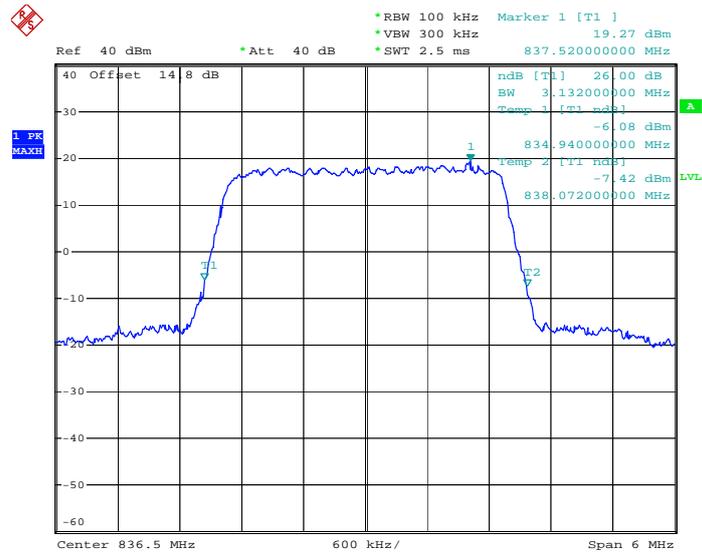
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 15, RB Offset 0**



Date: 16.FEB.2013 18:08:53

**26dB Bandwidth Plot on Channel 20525  
for RB Size 15, RB Offset 0**

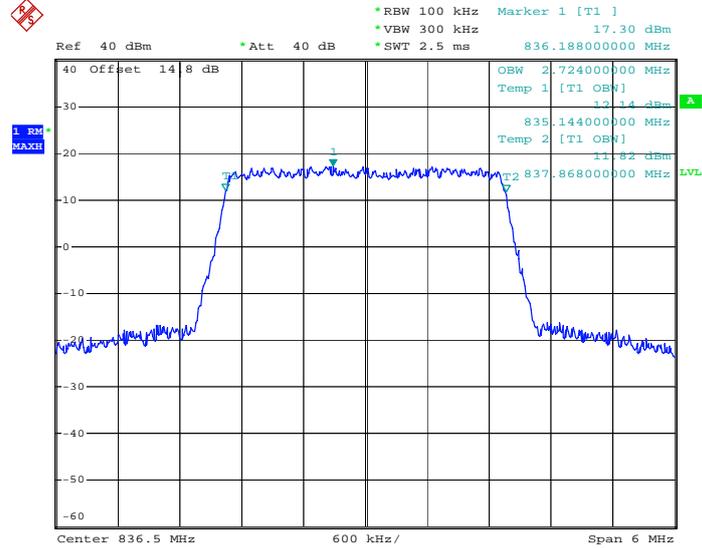


Date: 16.FEB.2013 22:42:39



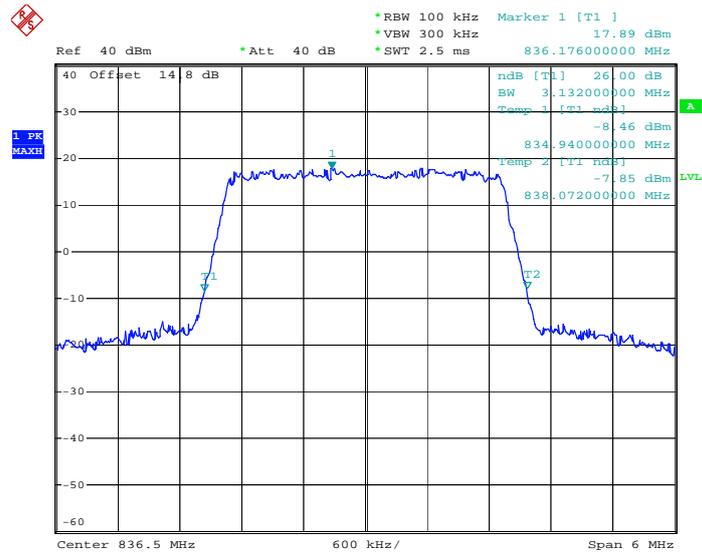
Band :	LTE Band 5	BW / Mod. :	3MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 15, RB Offset 0**



Date: 16.FEB.2013 18:09:52

**26dB Bandwidth Plot on Channel 20525  
for RB Size 15, RB Offset 0**

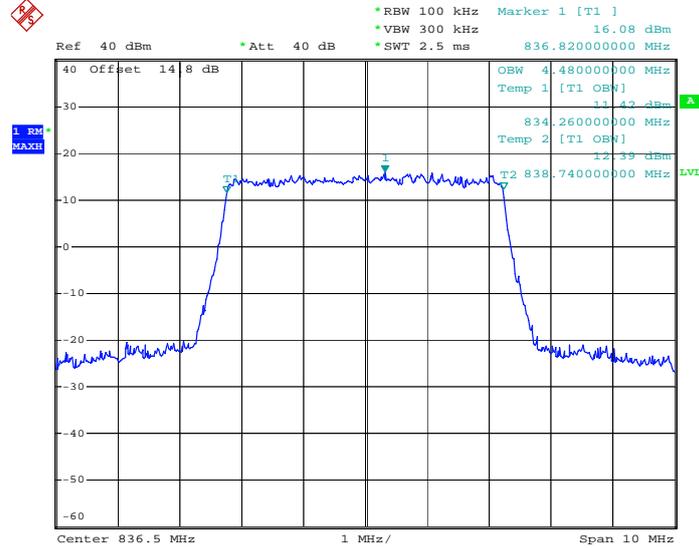


Date: 16.FEB.2013 22:43:10



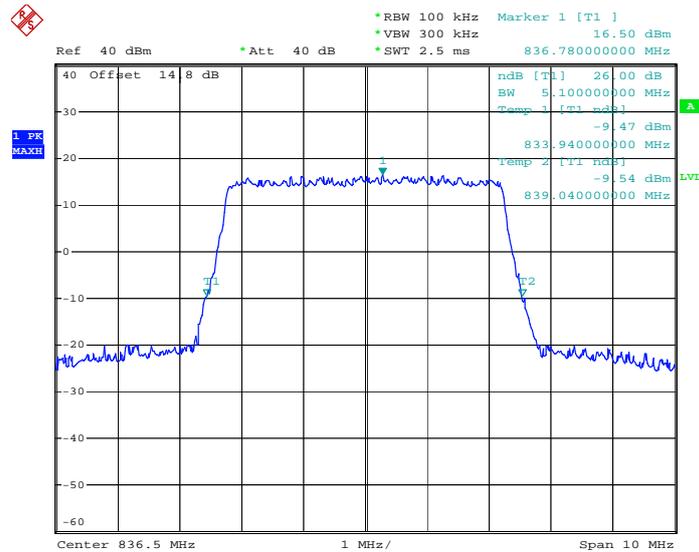
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 25, RB Offset 0**



Date: 16.FEB.2013 18:19:57

**26dB Bandwidth Plot on Channel 20525  
for RB Size 25, RB Offset 0**

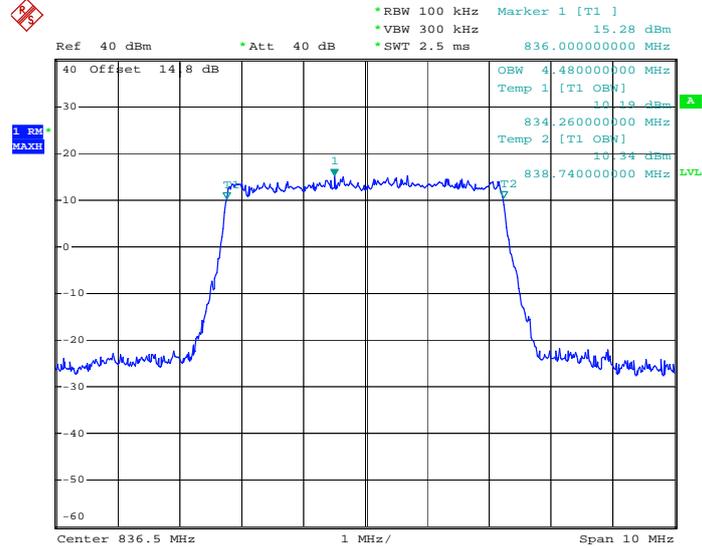


Date: 16.FEB.2013 22:45:51



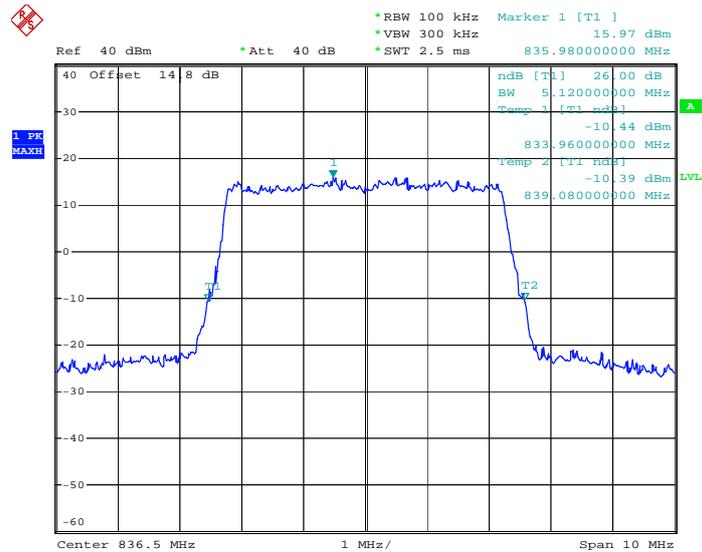
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 25, RB Offset 0**



Date: 16.FEB.2013 18:20:48

**26dB Bandwidth Plot on Channel 20525  
for RB Size 25, RB Offset 0**

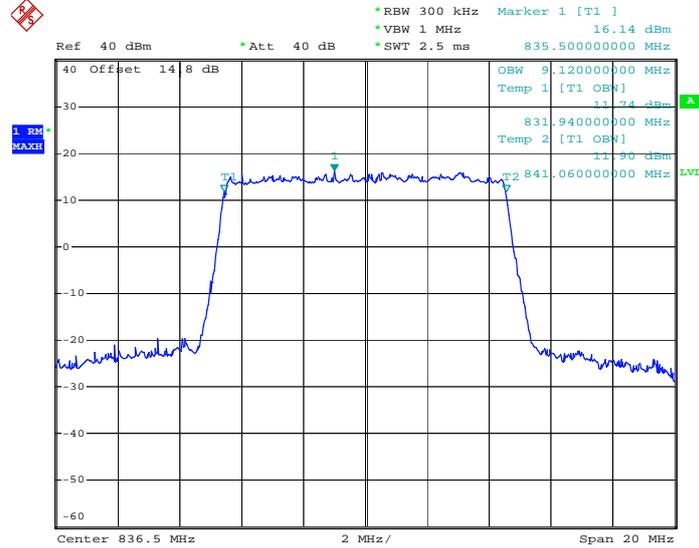


Date: 16.FEB.2013 22:46:25



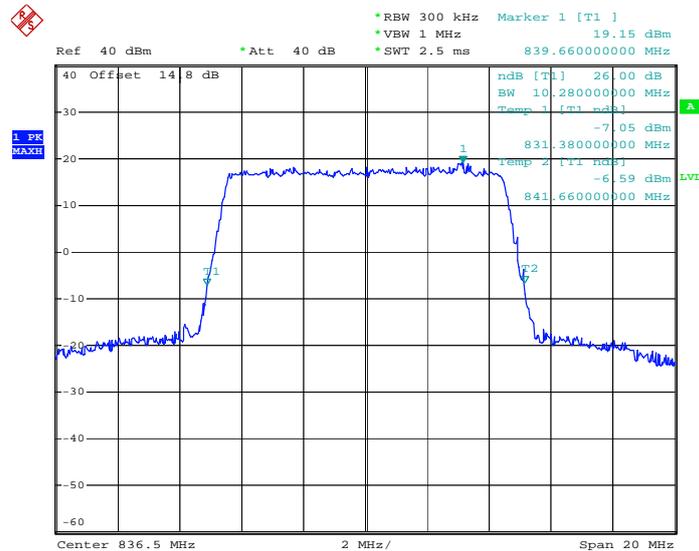
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 50, RB Offset 0**



Date: 16.FEB.2013 18:25:48

**26dB Bandwidth Plot on Channel 20525  
for RB Size 50, RB Offset 0**

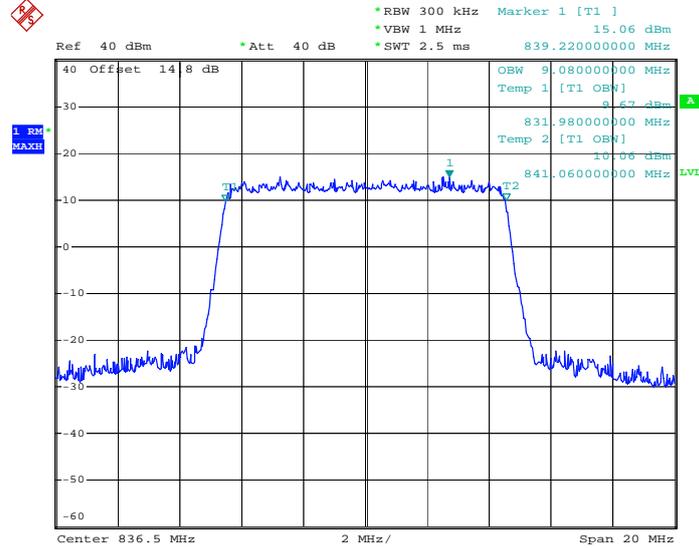


Date: 16.FEB.2013 22:47:52



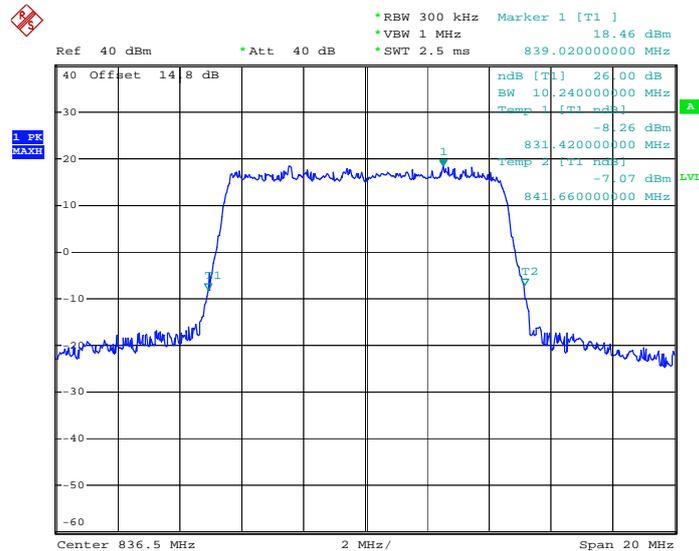
Band :	LTE Band 5	BW / Mod. :	10MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 50, RB Offset 0**



Date: 16.FEB.2013 18:26:07

**26dB Bandwidth Plot on Channel 20525  
for RB Size 50, RB Offset 0**

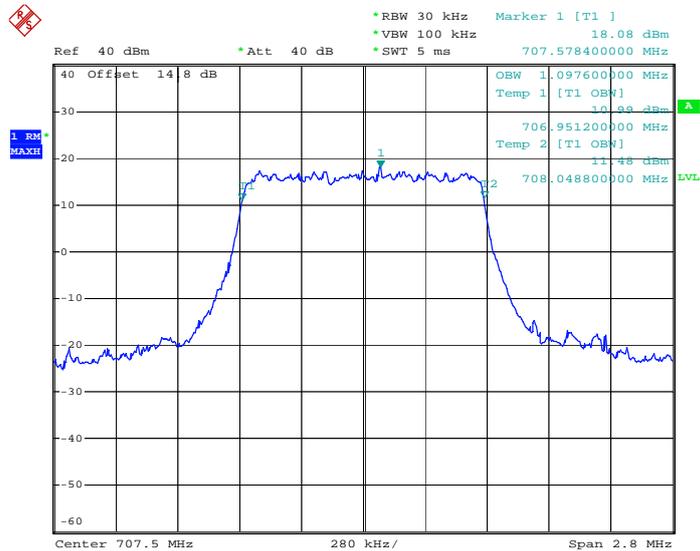


Date: 16.FEB.2013 22:49:56



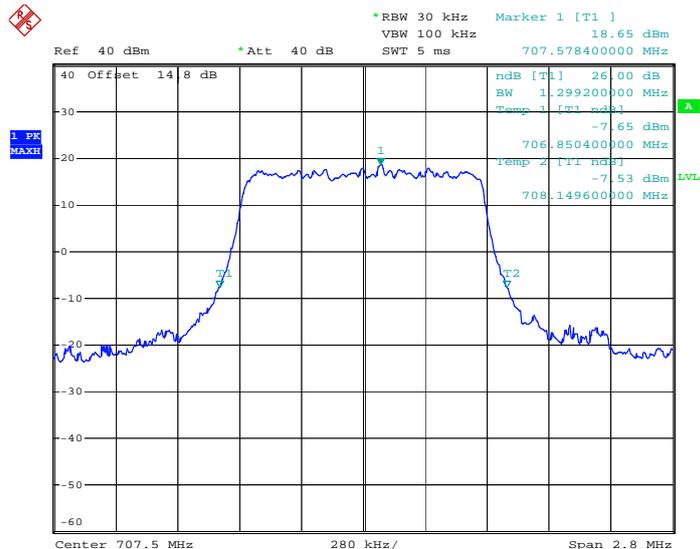
Band :	LTE Band 12	BW / Mod. :	1.4MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 23095  
for RB Size 6, RB Offset 0**



Date: 16.FEB.2013 16:46:05

**26dB Bandwidth Plot on Channel 20525  
for RB Size 6, RB Offset 0**

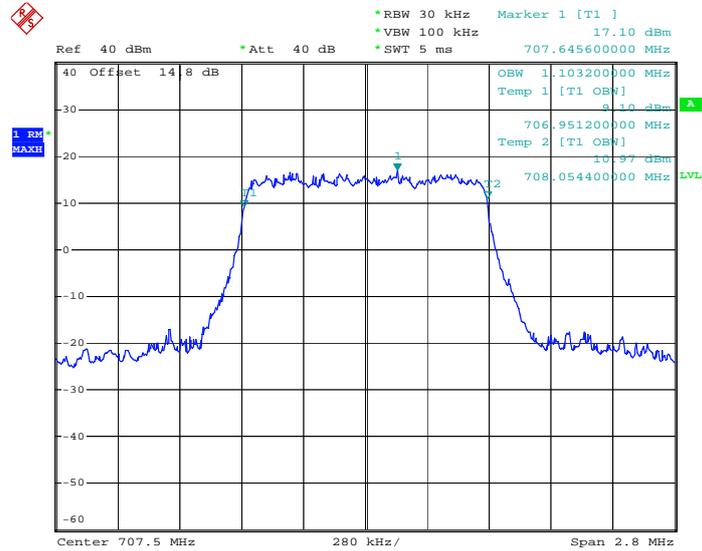


Date: 16.FEB.2013 16:08:42



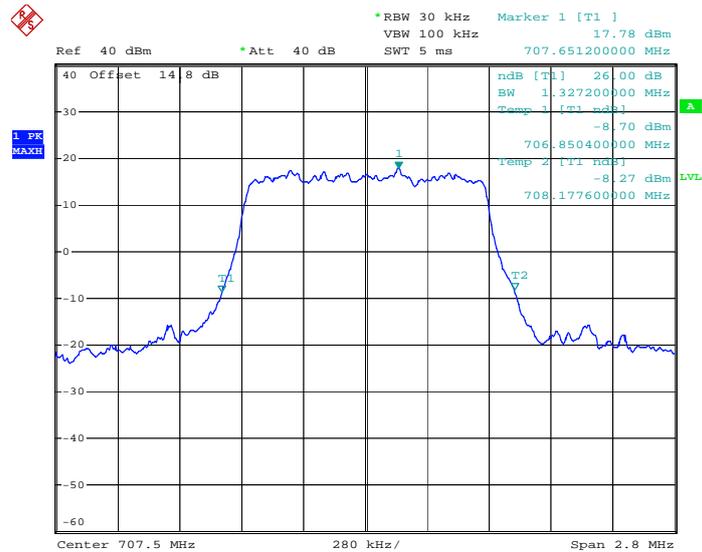
Band :	LTE Band 12	BW / Mod. :	1.4MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 23095  
for RB Size 6, RB Offset 0**



Date: 16.FEB.2013 16:46:33

**26dB Bandwidth Plot on Channel 20525  
for RB Size 6, RB Offset 0**

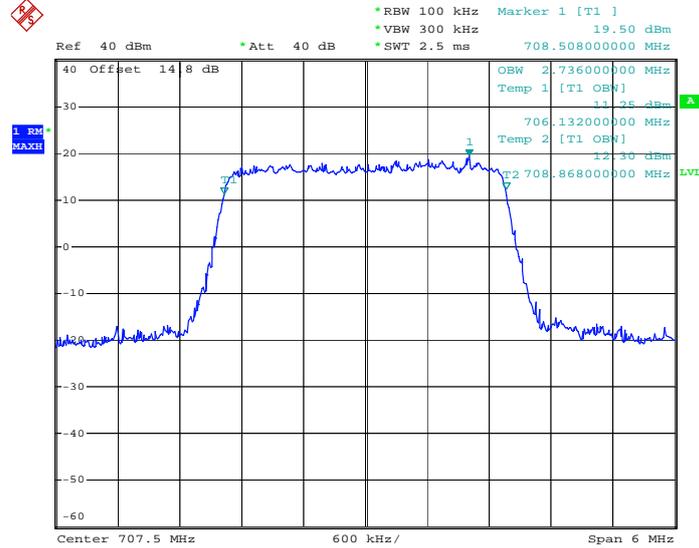


Date: 16.FEB.2013 16:06:33



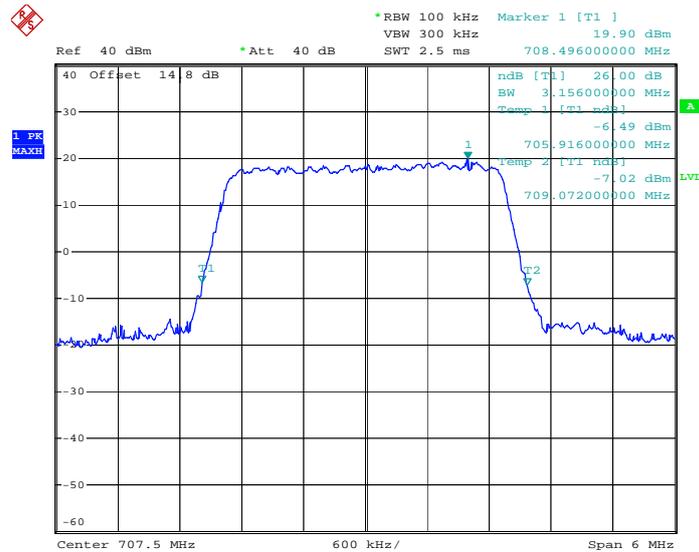
Band :	LTE Band 12	BW / Mod. :	3MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 23095  
for RB Size 15, RB Offset 0**



Date: 16.FEB.2013 16:57:15

**26dB Bandwidth Plot on Channel 23095  
for RB Size 15, RB Offset 0**

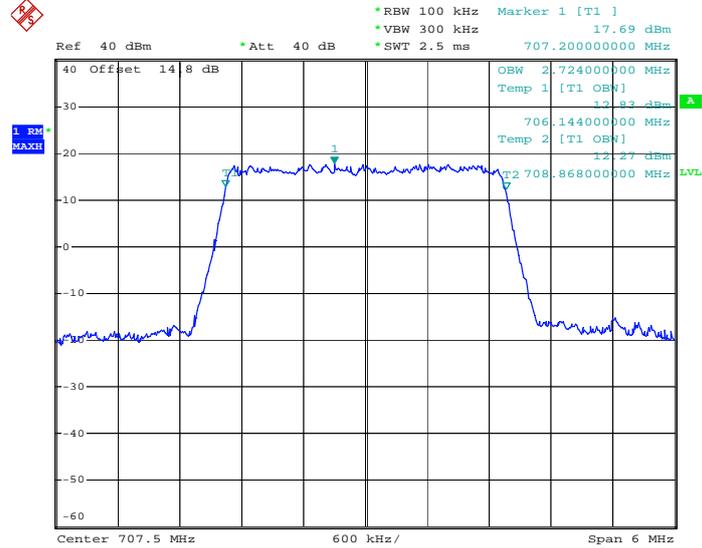


Date: 16.FEB.2013 16:09:49



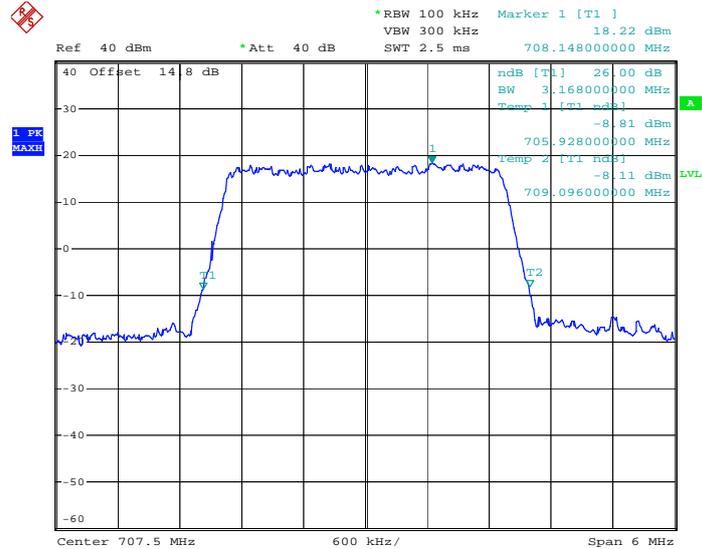
Band :	LTE Band 12	BW / Mod. :	3MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 23095  
for RB Size 15, RB Offset 0**



Date: 16.FEB.2013 16:56:22

**26dB Bandwidth Plot on Channel 23095  
for RB Size 15, RB Offset 0**

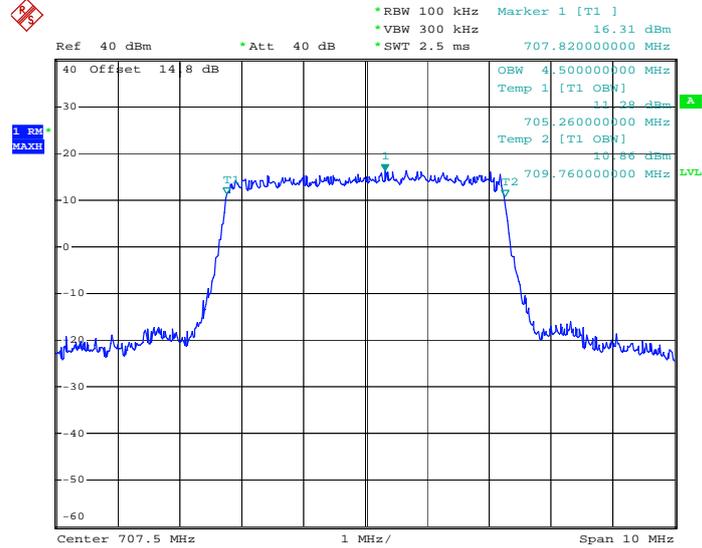


Date: 16.FEB.2013 16:10:27



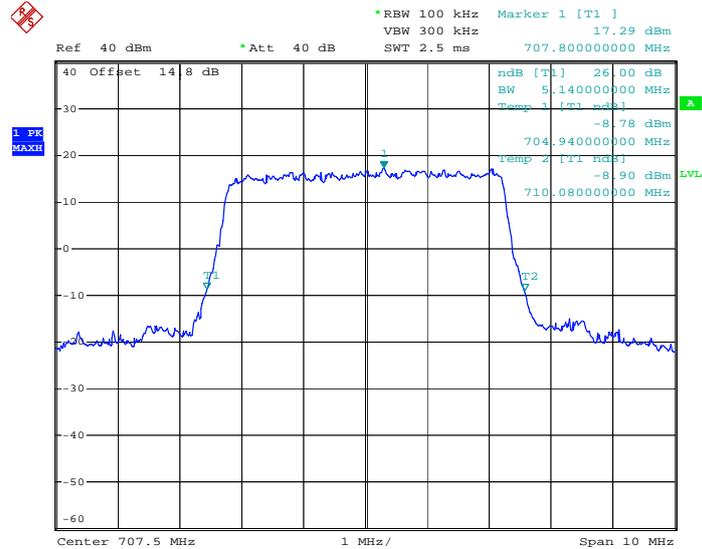
Band :	LTE Band 12	BW / Mod. :	5MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 23095  
for RB Size 25, RB Offset 0**



Date: 16.FEB.2013 17:27:55

**26dB Bandwidth Plot on Channel 23095  
for RB Size 25, RB Offset 0**

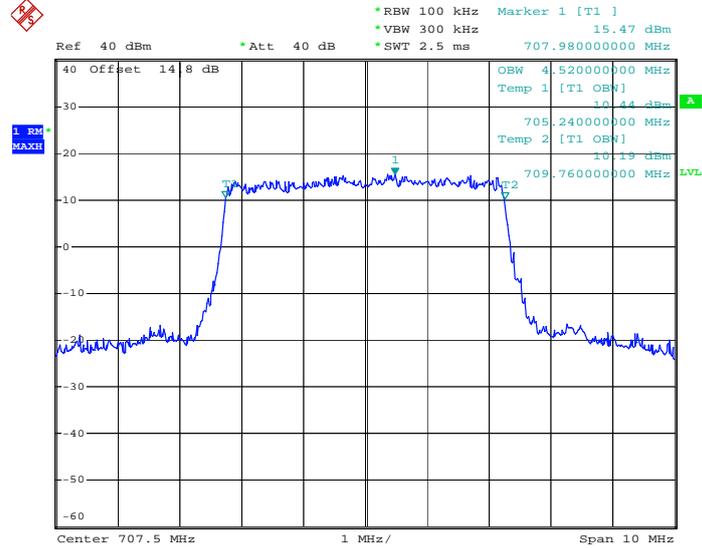


Date: 16.FEB.2013 16:12:38



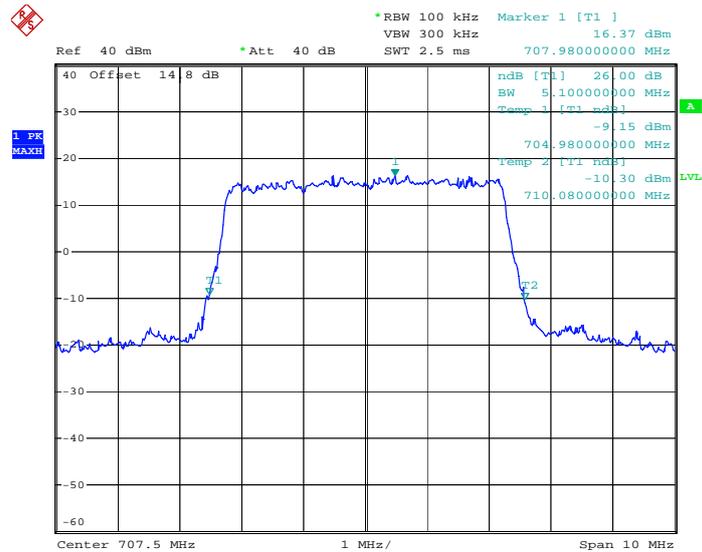
Band :	LTE Band 12	BW / Mod. :	5MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 23095  
for RB Size 25, RB Offset 0**



Date: 16.FEB.2013 17:27:16

**26dB Bandwidth Plot on Channel 23095  
for RB Size 25, RB Offset 0**

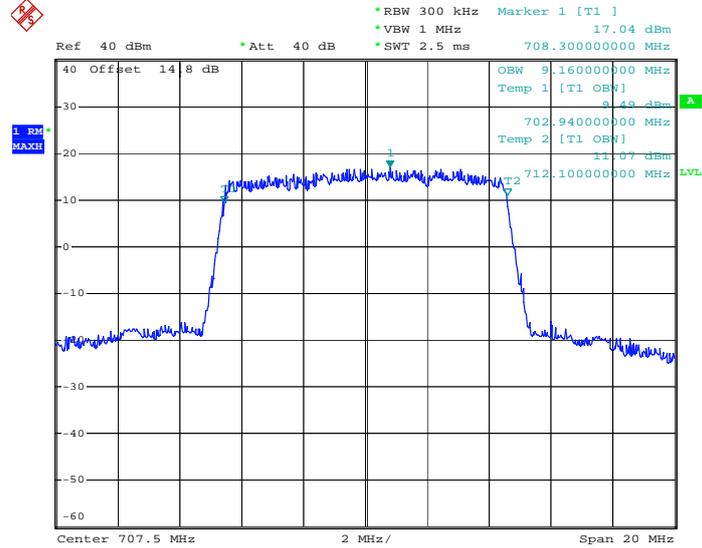


Date: 16.FEB.2013 16:11:39



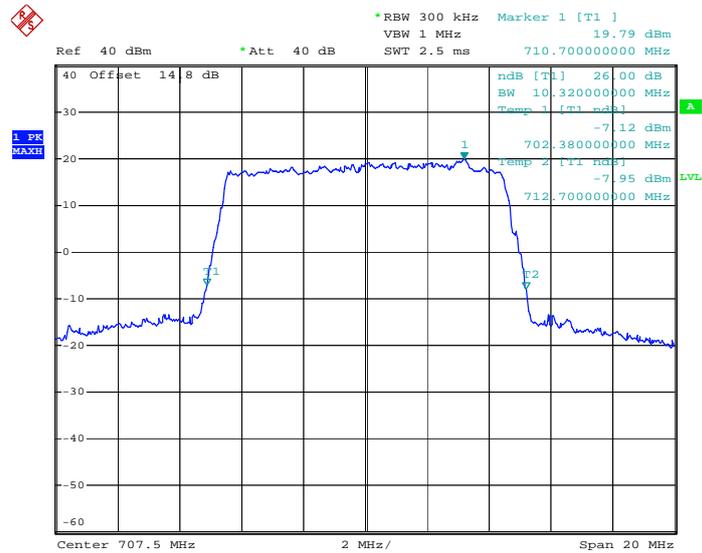
Band :	LTE Band 12	BW / Mod. :	10MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 23095  
for RB Size 50, RB Offset 0**



Date: 16.FEB.2013 17:35:48

**26dB Bandwidth Plot on Channel 23095  
for RB Size 50, RB Offset 0**

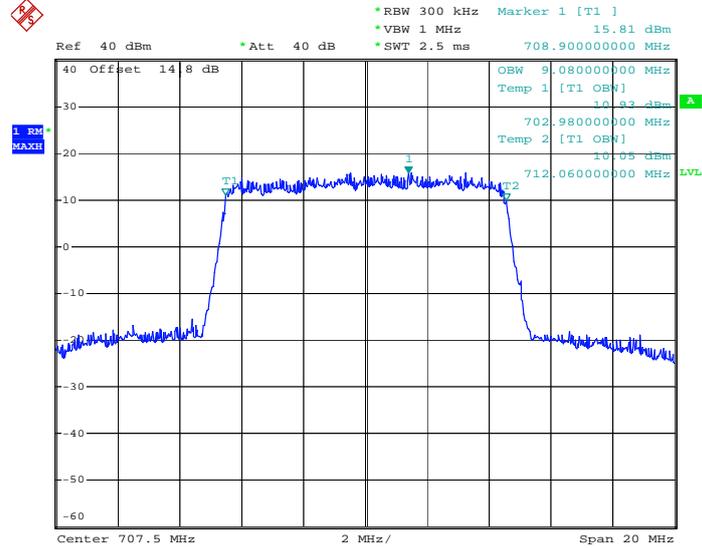


Date: 16.FEB.2013 16:13:38



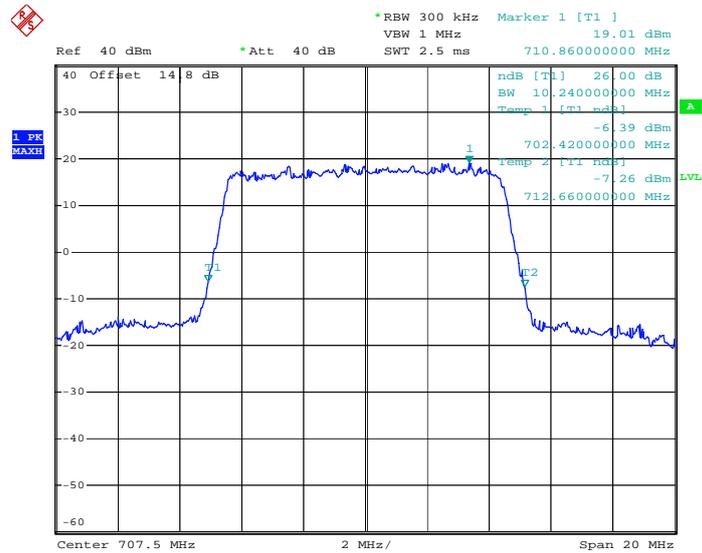
Band :	LTE Band 12	BW / Mod. :	10MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 23095  
for RB Size 50, RB Offset 0**



Date: 16.FEB.2013 17:35:16

**26dB Bandwidth Plot on Channel 23095  
for RB Size 50, RB Offset 0**



Date: 16.FEB.2013 16:14:21

### 3.4 Band Edge Measurement

#### 3.4.1 Limit

For operations in band 2 and band 4, the FCC limit is

$43 + 10\log_{10}(P[\text{Watts}]) \text{ dB} = -13 \text{ dBm}$  in a 1 MHz bandwidth.

For operations in band 5, the FCC limit is

$43 + 10\log_{10}(P[\text{Watts}]) \text{ dB} = -13 \text{ dBm}$  in a 100 kHz bandwidth.

For operations in band 12, the FCC limit is

$43 + 10\log_{10}(P[\text{Watts}]) \text{ dB} = -13 \text{ dBm}$  in a 100 KHz bandwidth.

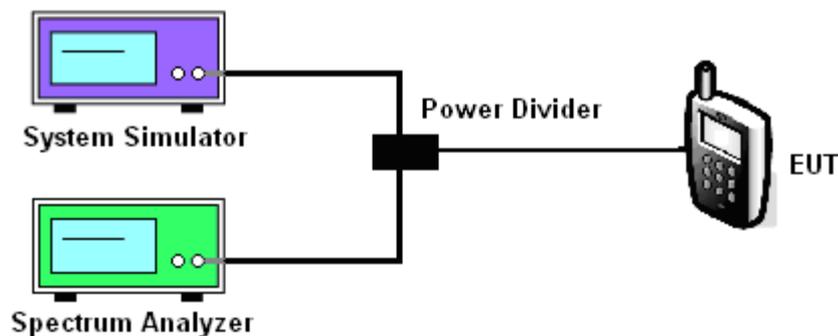
#### 3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.4.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The band edges of low and high channels for the highest RF powers were measured.

#### 3.4.4 Test Setup

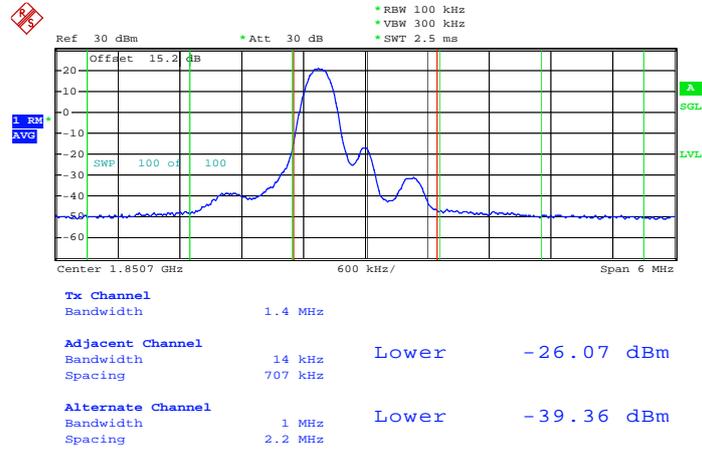




### 3.4.5 Test Result (Plots) of Conducted Band Edge

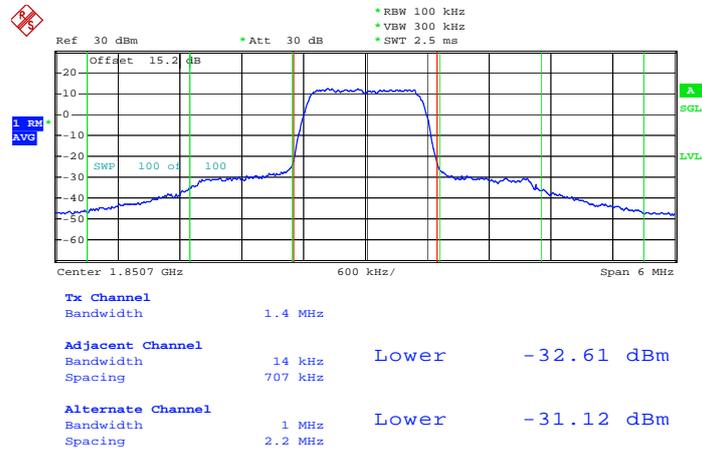
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 05:29:19

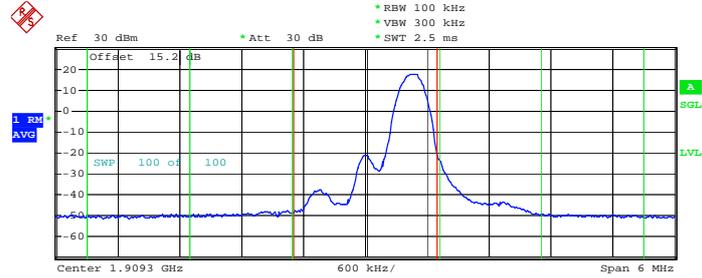
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 19.MAR.2013 05:31:41



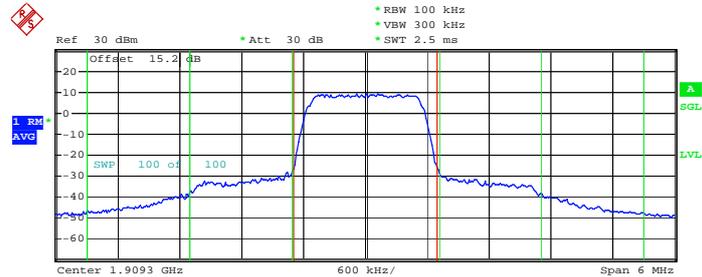
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-30.01 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-40.24 dBm

Date: 19.MAR.2013 05:39:35

Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0



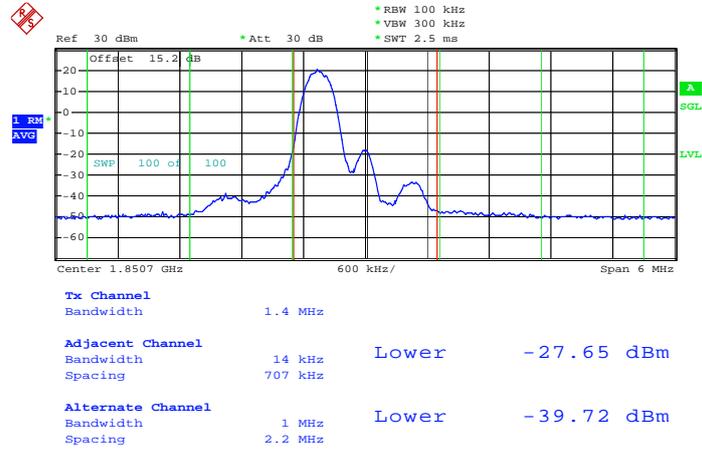
<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-35.40 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-33.88 dBm

Date: 19.MAR.2013 05:38:47



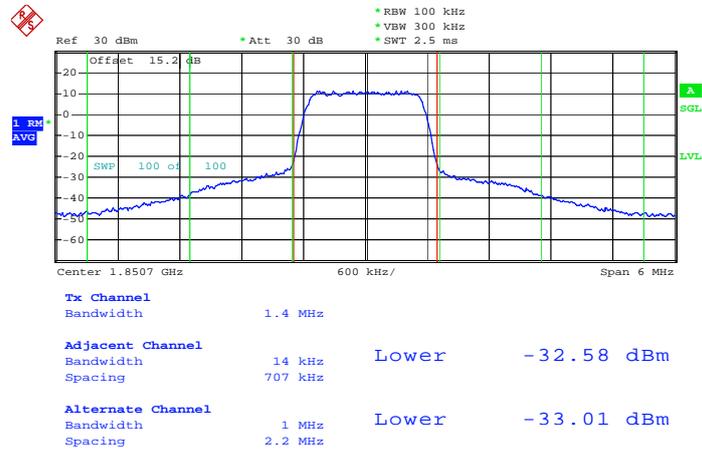
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 05:30:46

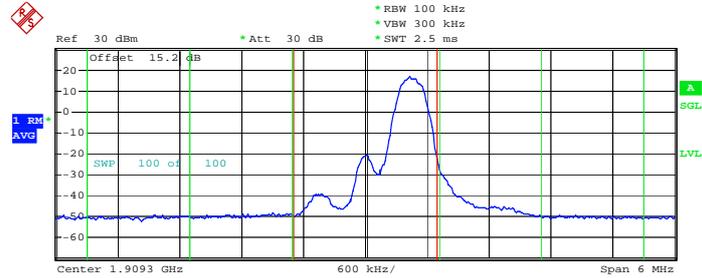
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 19.MAR.2013 05:31:12



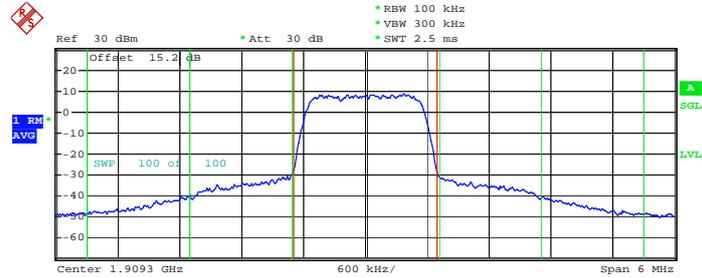
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-31.35 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-40.43 dBm

Date: 19.MAR.2013 05:40:54

Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



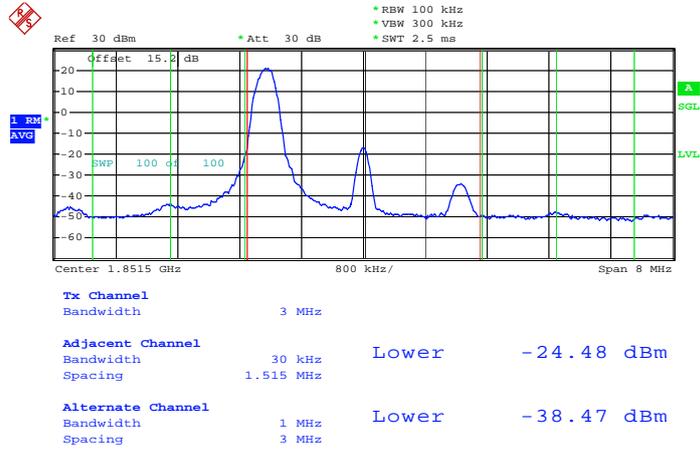
<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-38.15 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-35.00 dBm

Date: 19.MAR.2013 05:33:50



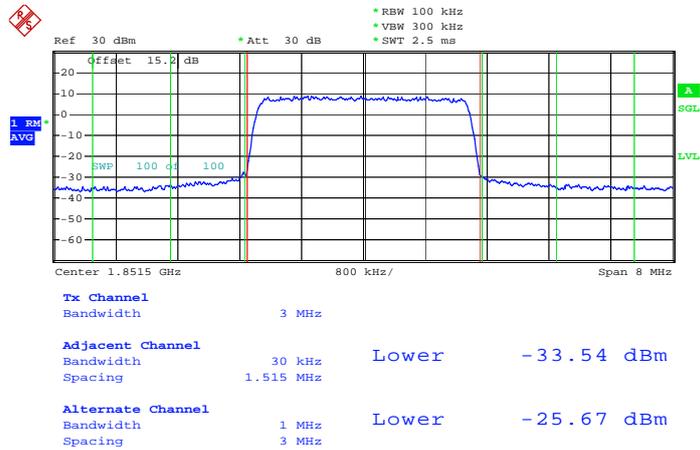
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 06:11:54

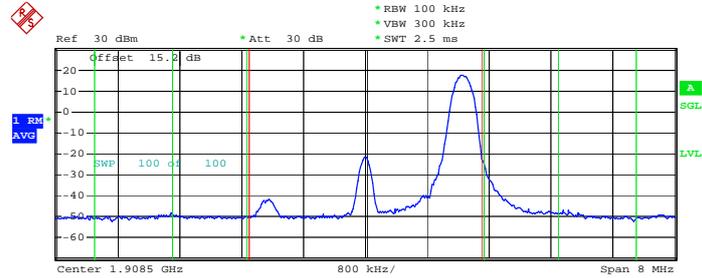
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 19.MAR.2013 06:12:27



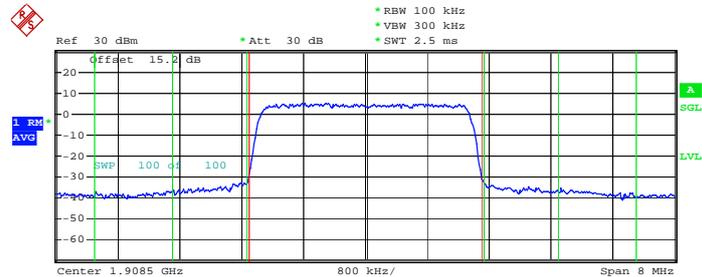
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-25.73 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	3 MHz	Upper	-39.88 dBm

Date: 19.MAR.2013 06:14:35

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



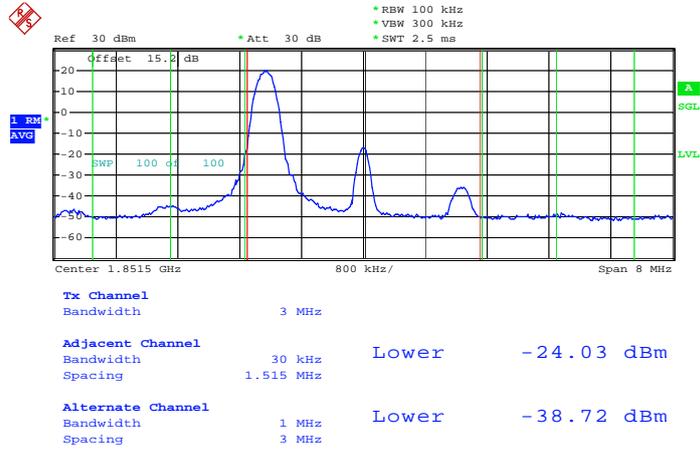
<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-35.28 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	3 MHz	Upper	-27.97 dBm

Date: 19.MAR.2013 06:14:13



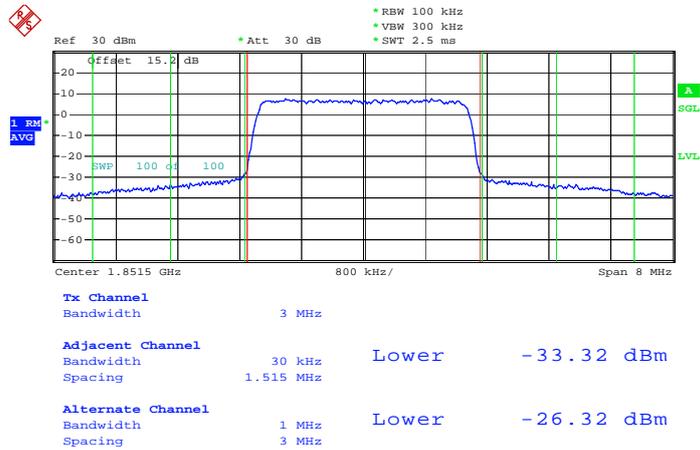
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 06:11:35

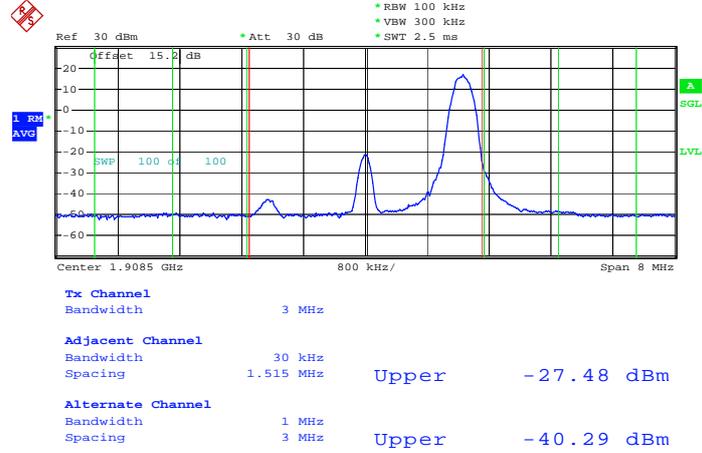
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 19.MAR.2013 06:12:47

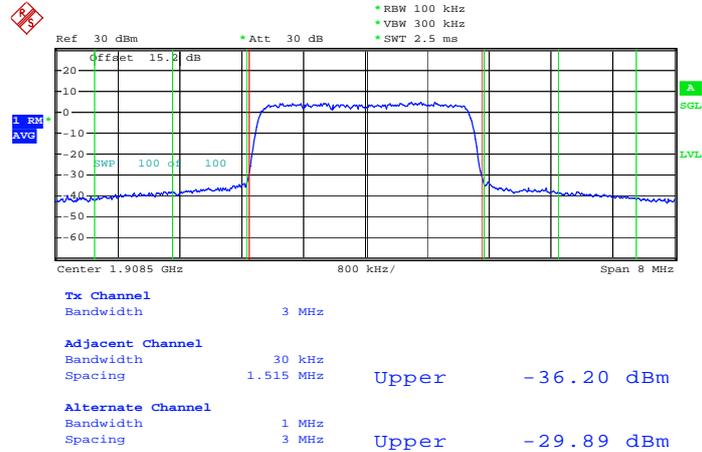


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



Date: 19.MAR.2013 06:14:52

Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0

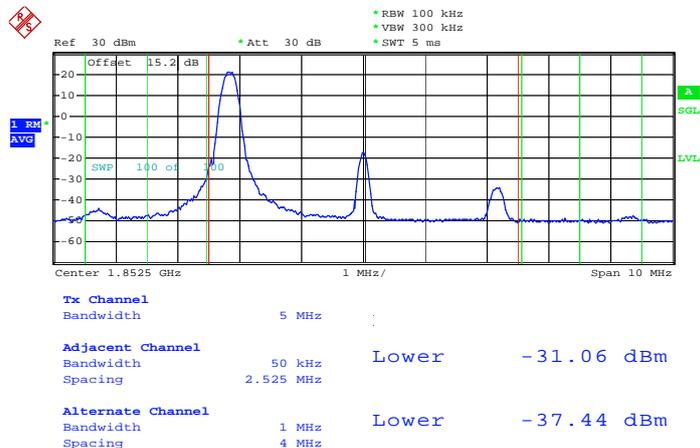


Date: 19.MAR.2013 06:13:53



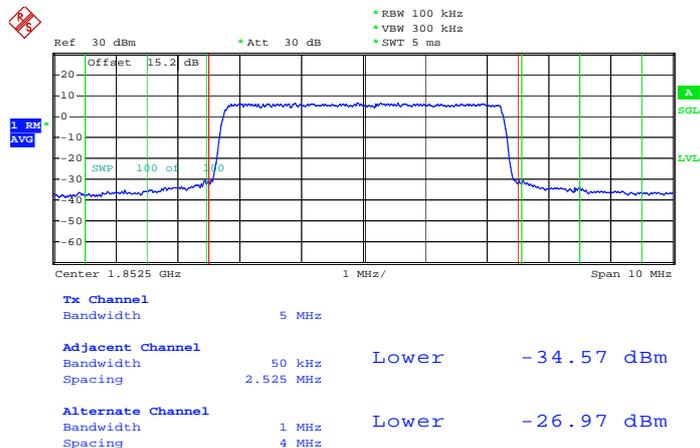
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 06:20:41

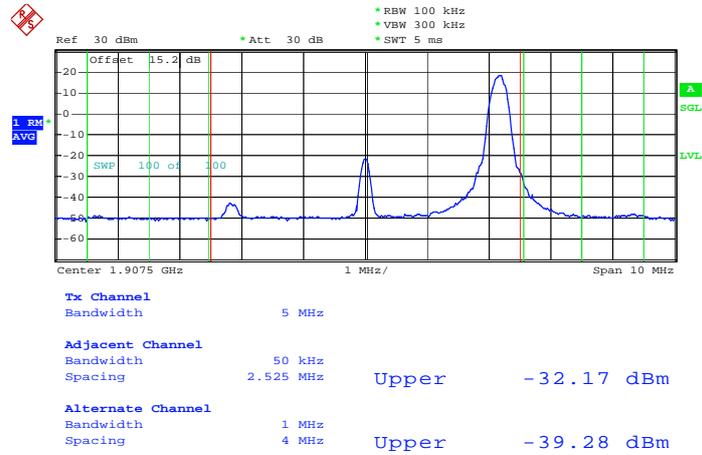
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 19.MAR.2013 06:20:59

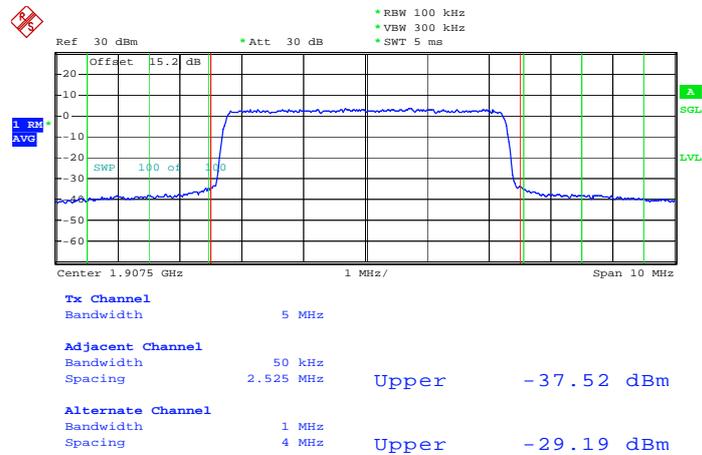


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 19.MAR.2013 06:23:07

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

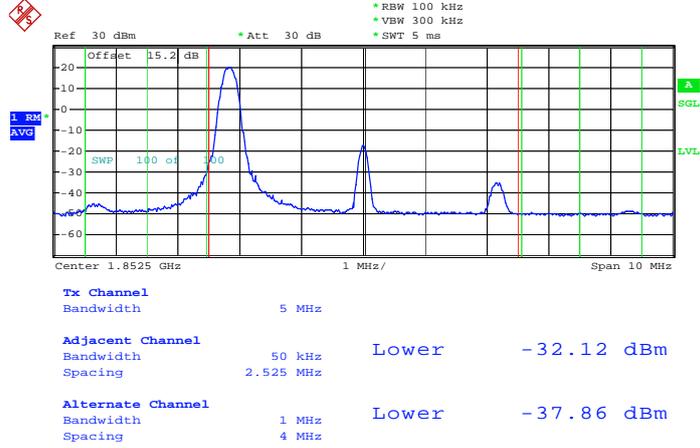


Date: 19.MAR.2013 06:22:32



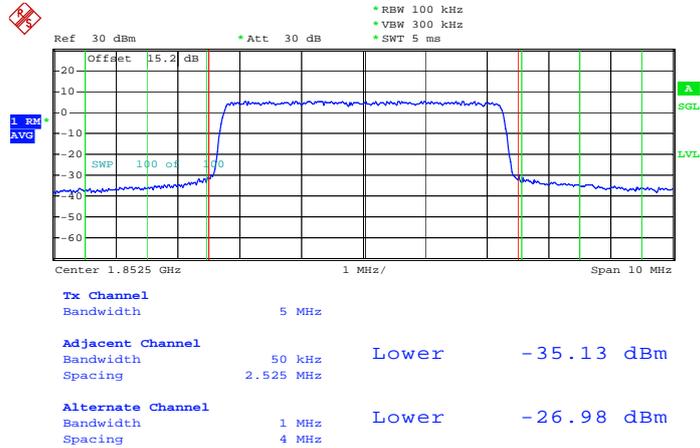
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 06:20:08

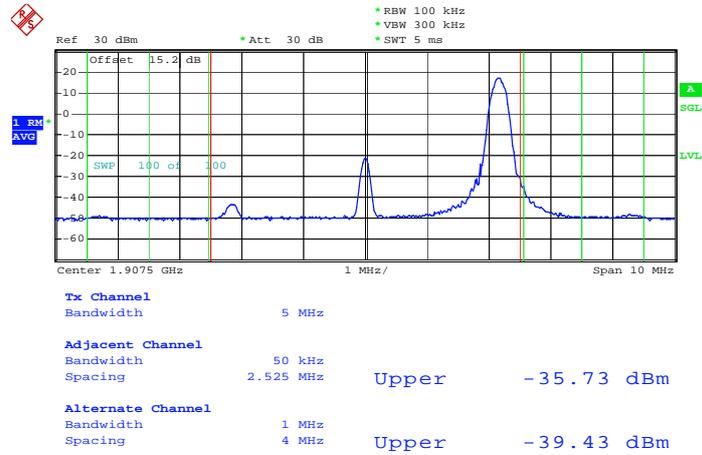
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 19.MAR.2013 06:21:28

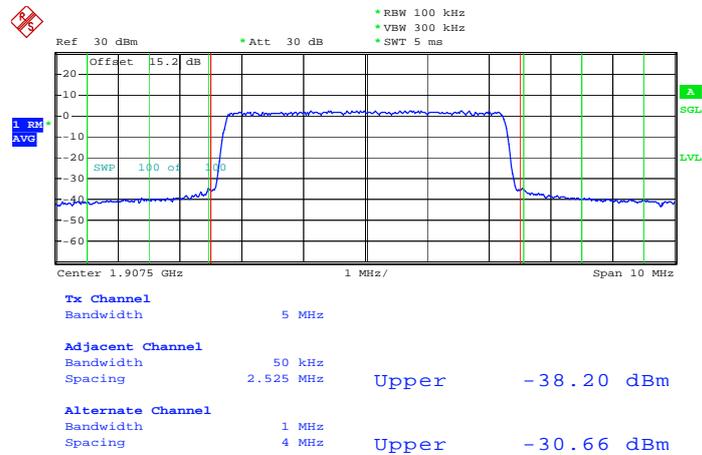


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 19.MAR.2013 06:23:30

Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0

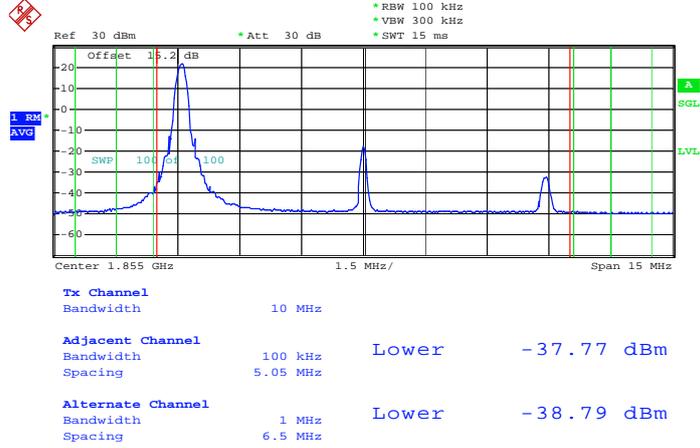


Date: 19.MAR.2013 06:22:07



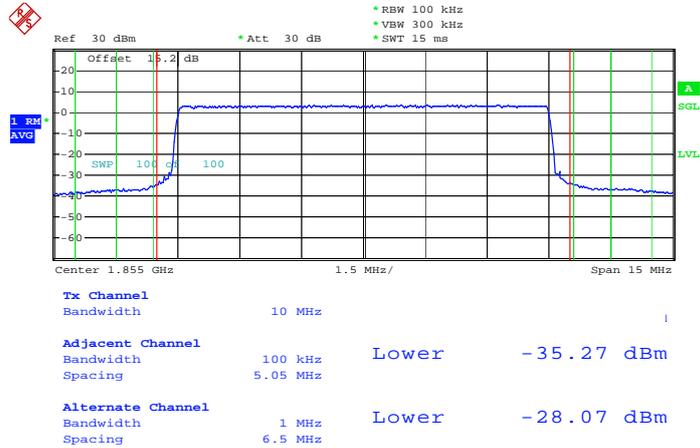
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	10MHz / QPSK
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**Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0**



Date: 19.MAR.2013 06:27:17

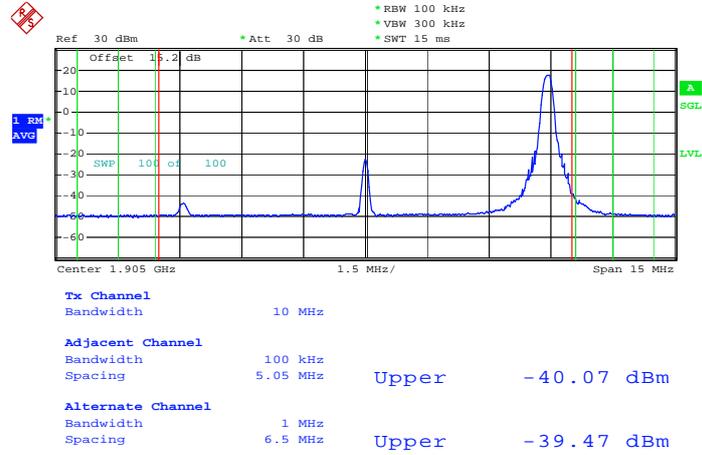
**Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0**



Date: 19.MAR.2013 06:27:44

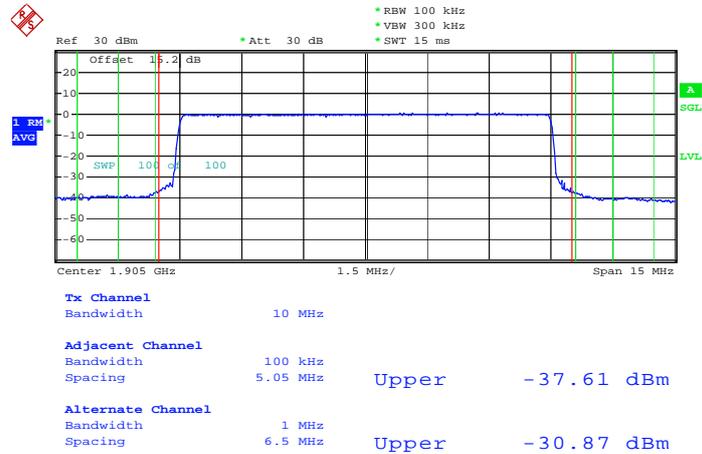


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 19.MAR.2013 06:29:48

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

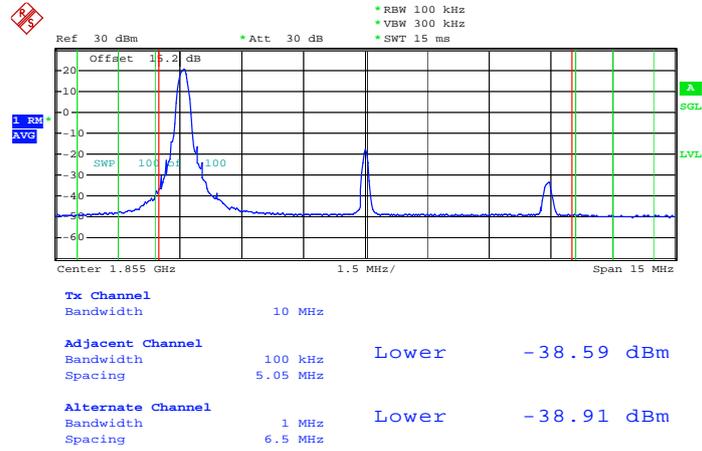


Date: 19.MAR.2013 06:29:21



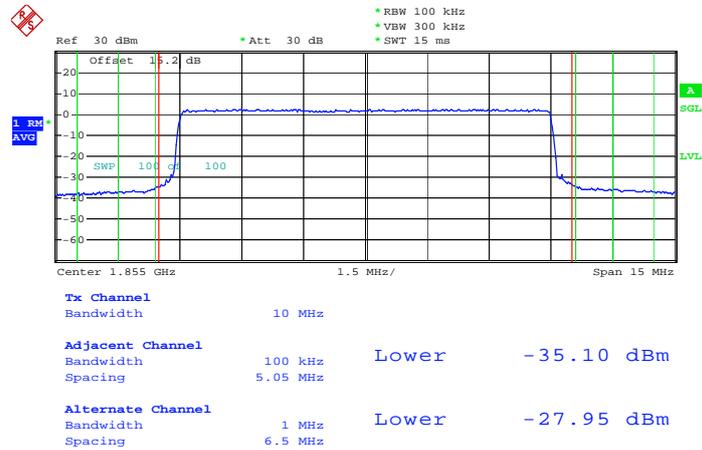
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 06:26:54

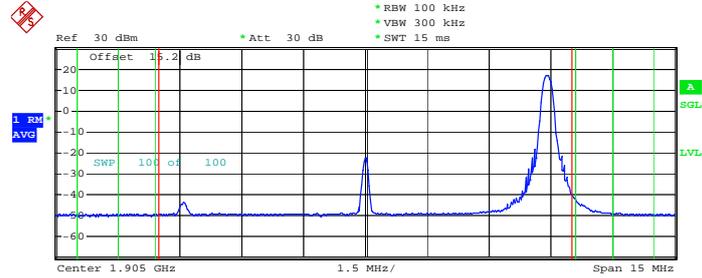
Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 19.MAR.2013 06:28:05



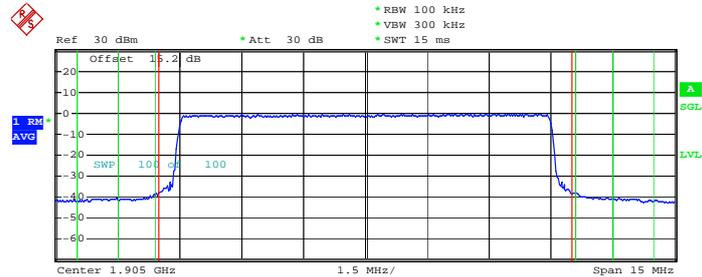
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



<b>Tx Channel</b>			
Bandwidth	10 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	5.05 MHz	Upper	-41.04 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	6.5 MHz	Upper	-39.58 dBm

Date: 19.MAR.2013 06:30:05

Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



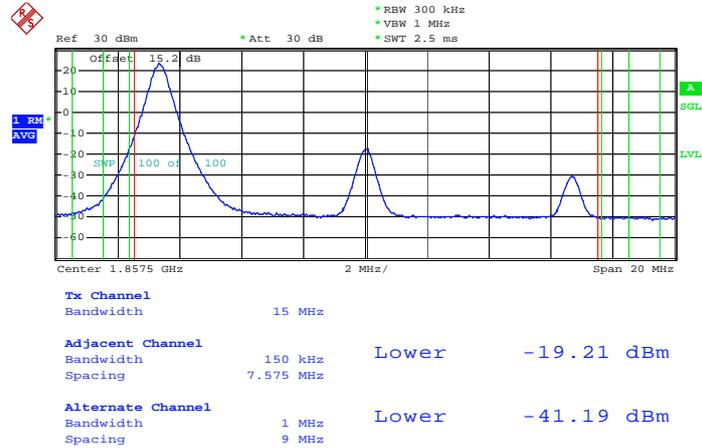
<b>Tx Channel</b>			
Bandwidth	10 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	5.05 MHz	Upper	-38.43 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	6.5 MHz	Upper	-31.62 dBm

Date: 19.MAR.2013 06:29:04



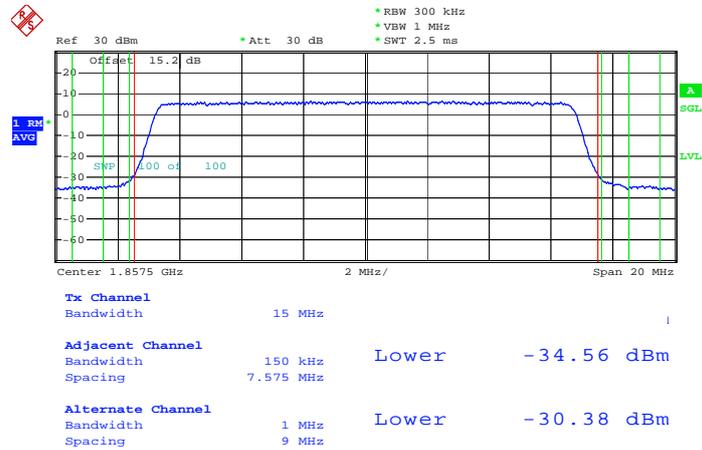
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	15MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 06:35:56

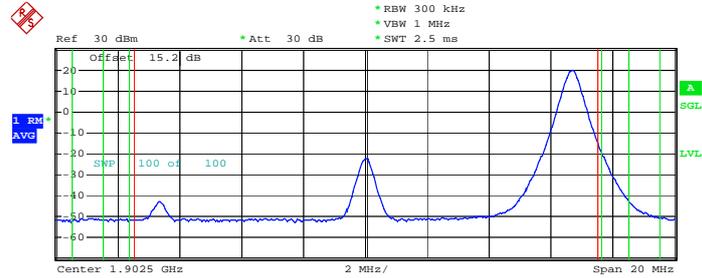
Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



Date: 19.MAR.2013 06:34:59



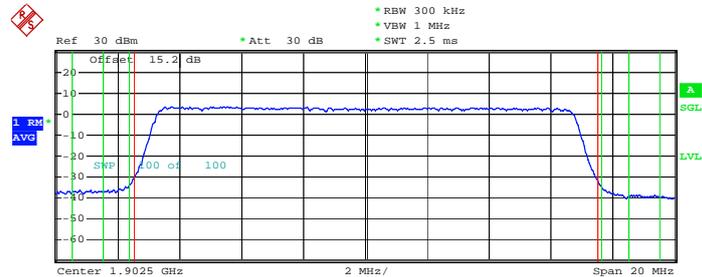
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



**Tx Channel**  
 Bandwidth 15 MHz  
**Adjacent Channel**  
 Bandwidth 150 kHz  
 Spacing 7.575 MHz Upper -20.15 dBm  
**Alternate Channel**  
 Bandwidth 1 MHz  
 Spacing 9 MHz Upper -42.52 dBm

Date: 19.MAR.2013 06:37:42

Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0



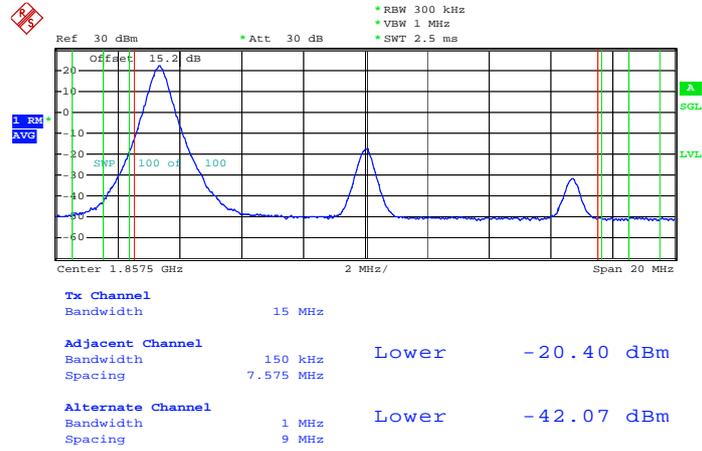
**Tx Channel**  
 Bandwidth 15 MHz  
**Adjacent Channel**  
 Bandwidth 150 kHz  
 Spacing 7.575 MHz Upper -36.96 dBm  
**Alternate Channel**  
 Bandwidth 1 MHz  
 Spacing 9 MHz Upper -34.56 dBm

Date: 19.MAR.2013 06:38:03



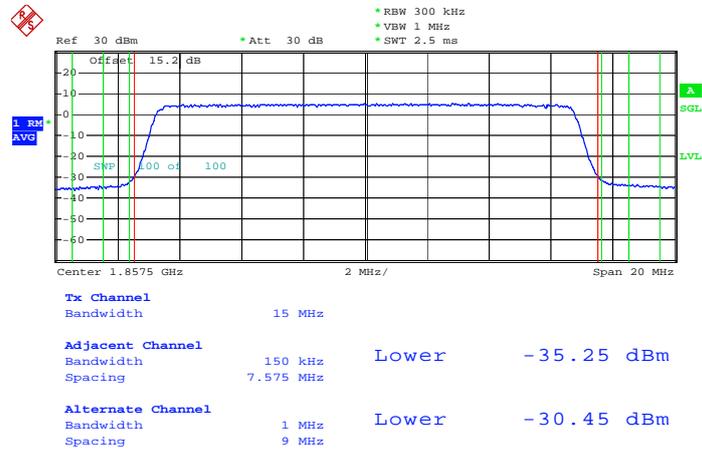
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	15MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 06:36:18

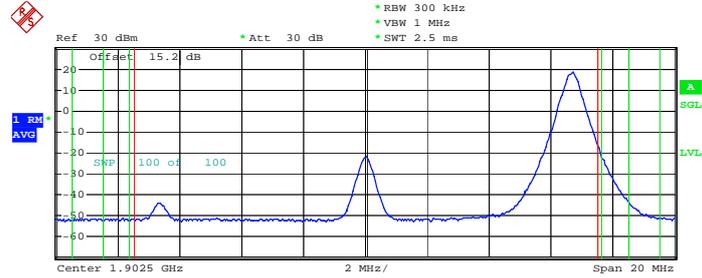
Lower Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



Date: 19.MAR.2013 06:34:18



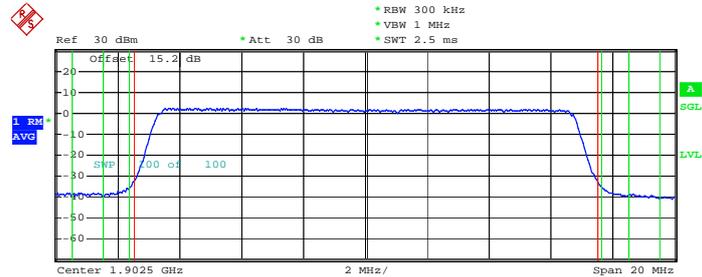
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 74



<b>Tx Channel</b>	Bandwidth	15 MHz		
<b>Adjacent Channel</b>	Bandwidth	150 kHz	Upper	-21.53 dBm
	Spacing	7.575 MHz		
<b>Alternate Channel</b>	Bandwidth	1 MHz	Upper	-43.58 dBm
	Spacing	9 MHz		

Date: 19.MAR.2013 06:37:16

Higher Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



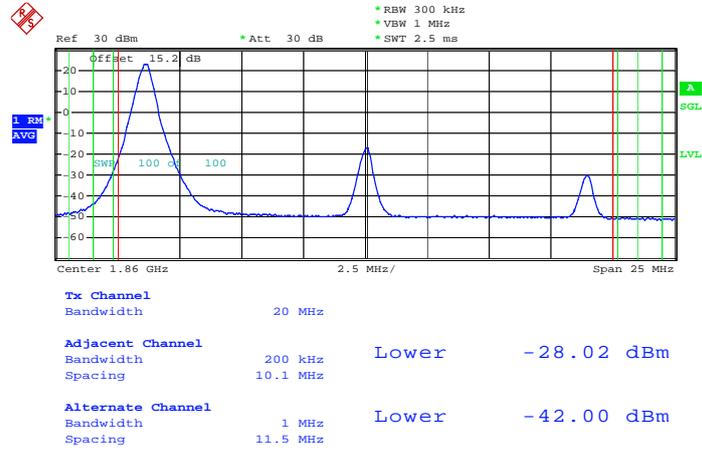
<b>Tx Channel</b>	Bandwidth	15 MHz		
<b>Adjacent Channel</b>	Bandwidth	150 kHz	Upper	-37.73 dBm
	Spacing	7.575 MHz		
<b>Alternate Channel</b>	Bandwidth	1 MHz	Upper	-34.95 dBm
	Spacing	9 MHz		

Date: 19.MAR.2013 06:38:27



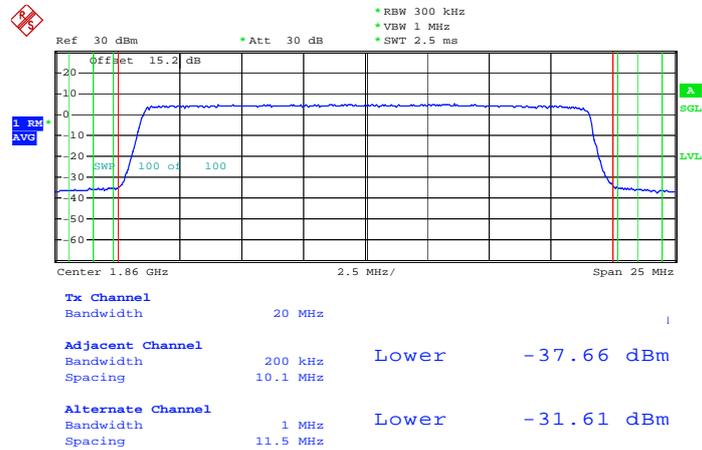
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	20MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 06:41:47

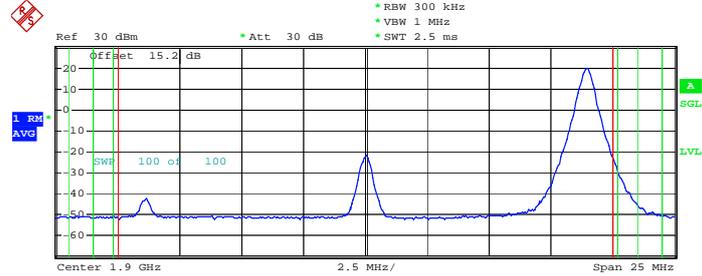
Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



Date: 19.MAR.2013 06:41:26



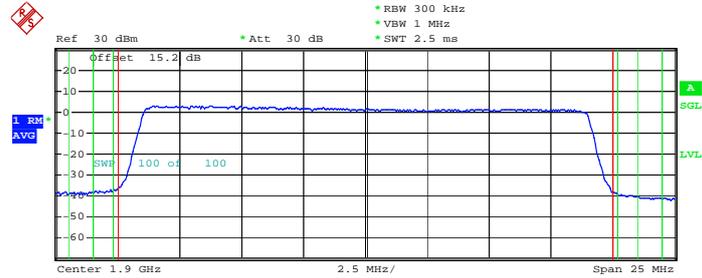
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



<b>Tx Channel</b>			
Bandwidth	20 MHz		
<b>Adjacent Channel</b>			
Bandwidth	200 kHz		
Spacing	10.1 MHz	Upper	-27.42 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	11.5 MHz	Upper	-44.01 dBm

Date: 19.MAR.2013 06:43:36

Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0



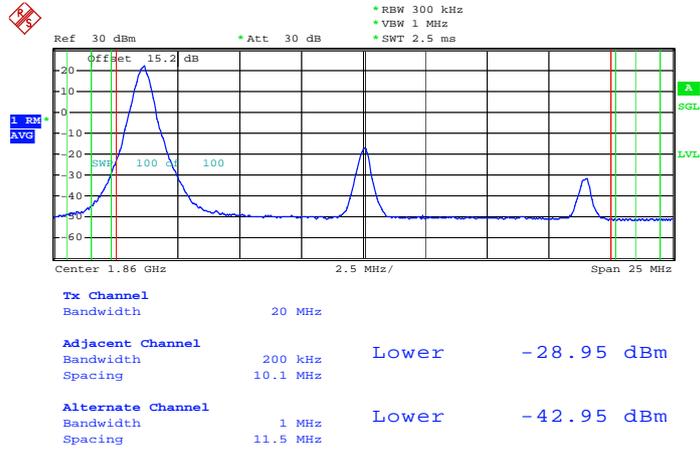
<b>Tx Channel</b>			
Bandwidth	20 MHz		
<b>Adjacent Channel</b>			
Bandwidth	200 kHz		
Spacing	10.1 MHz	Upper	-41.02 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	11.5 MHz	Upper	-36.50 dBm

Date: 19.MAR.2013 06:44:13



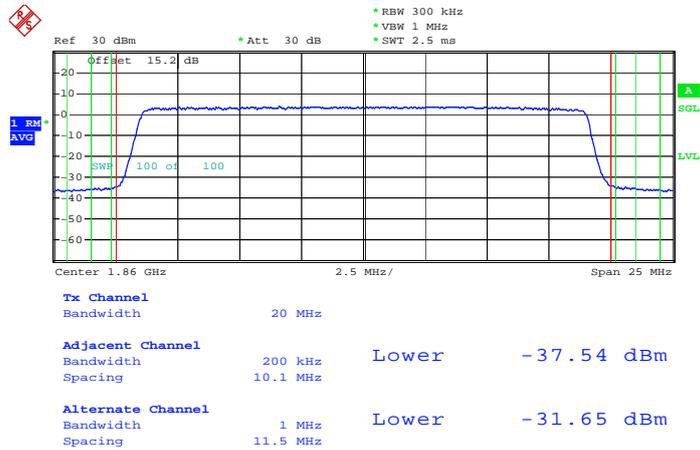
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	20MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 06:42:08

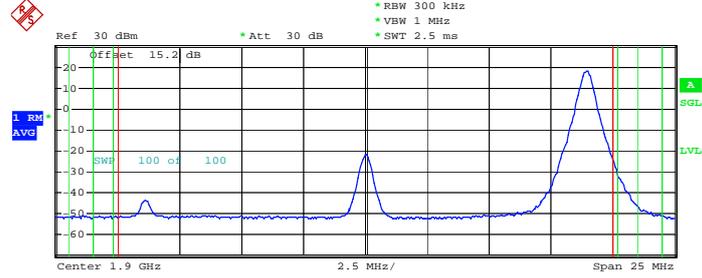
Lower Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



Date: 19.MAR.2013 06:41:06



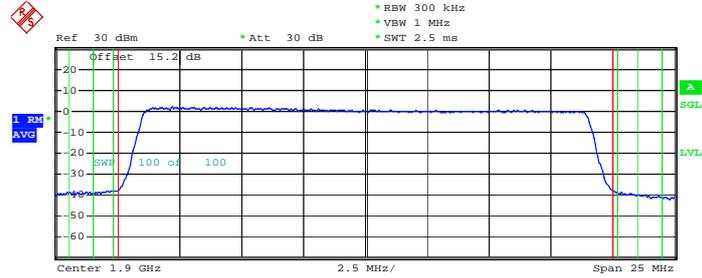
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 99



<b>Tx Channel</b>				
Bandwidth	20 MHz			
<b>Adjacent Channel</b>				
Bandwidth	200 kHz			
Spacing	10.1 MHz	Upper		-28.70 dBm
<b>Alternate Channel</b>				
Bandwidth	1 MHz			
Spacing	11.5 MHz	Upper		-44.86 dBm

Date: 19.MAR.2013 06:43:10

Higher Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



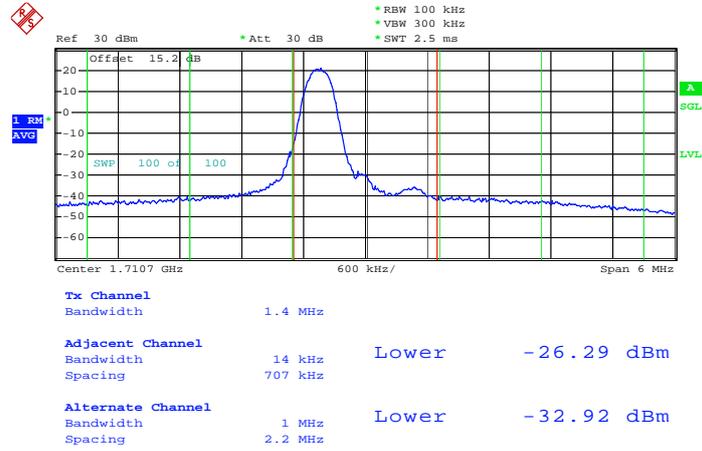
<b>Tx Channel</b>				
Bandwidth	20 MHz			
<b>Adjacent Channel</b>				
Bandwidth	200 kHz			
Spacing	10.1 MHz	Upper		-40.94 dBm
<b>Alternate Channel</b>				
Bandwidth	1 MHz			
Spacing	11.5 MHz	Upper		-36.07 dBm

Date: 19.MAR.2013 06:44:35



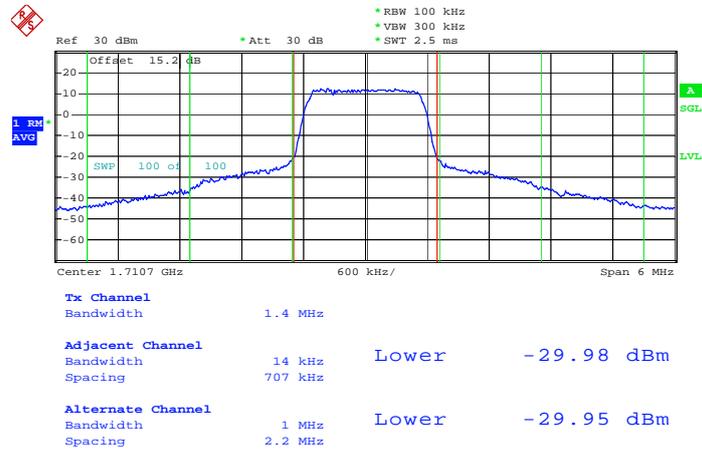
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 06:59:49

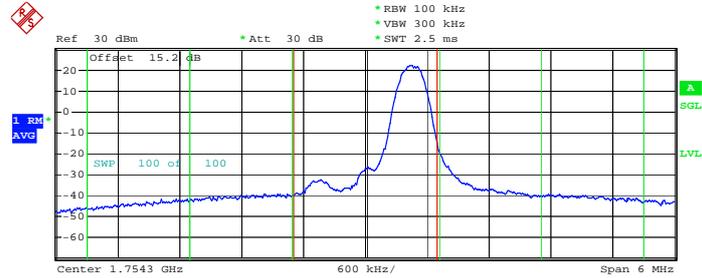
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 19.MAR.2013 06:59:31



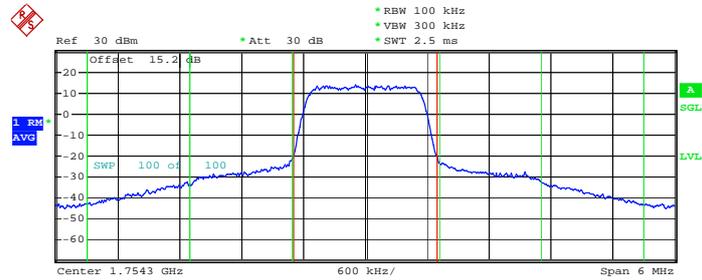
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-23.97 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz	Upper	-31.06 dBm
Spacing	2.2 MHz		

Date: 19.MAR.2013 07:12:55

Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0



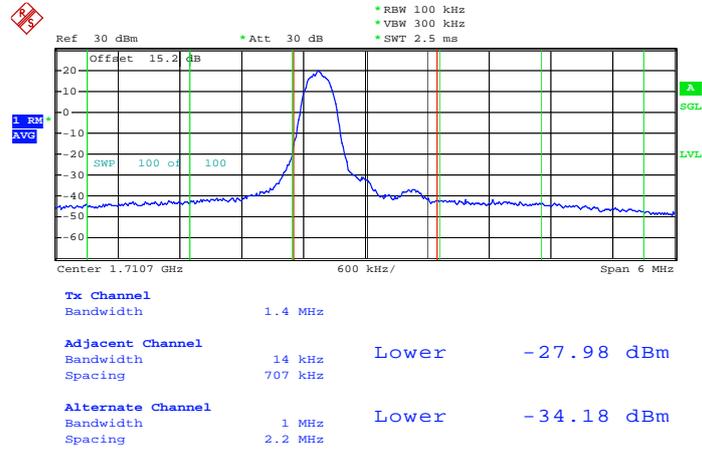
<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-29.19 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz	Upper	-27.20 dBm
Spacing	2.2 MHz		

Date: 19.MAR.2013 07:13:14



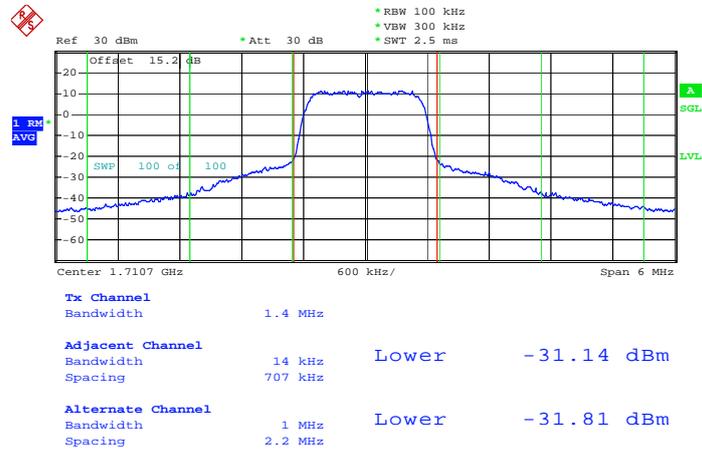
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 07:00:11

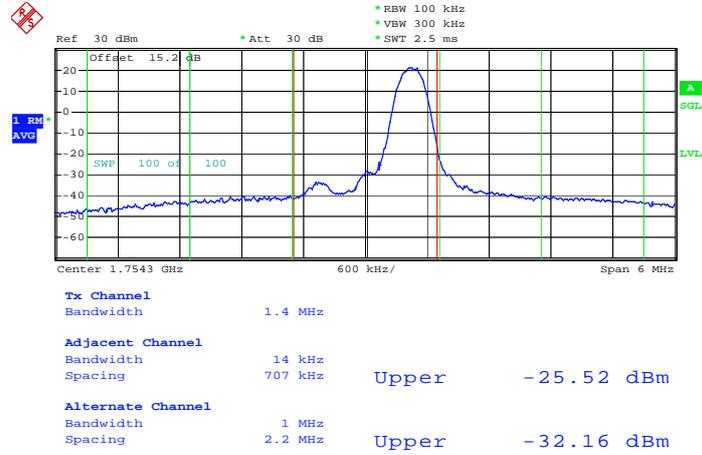
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 19.MAR.2013 06:59:14

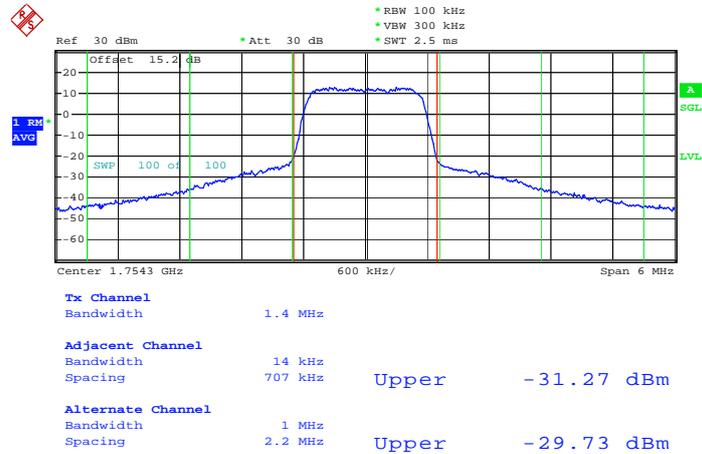


### Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



Date: 19.MAR.2013 07:12:39

### Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0

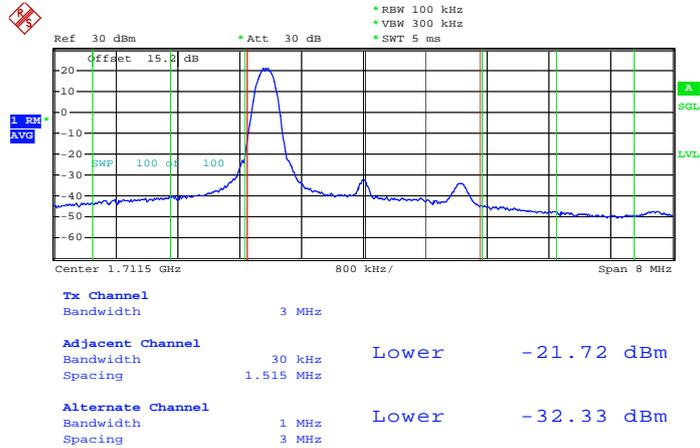


Date: 19.MAR.2013 07:13:36



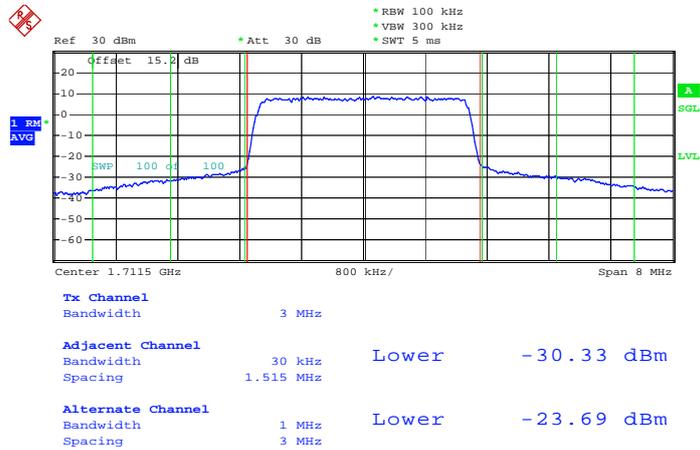
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 07:18:29

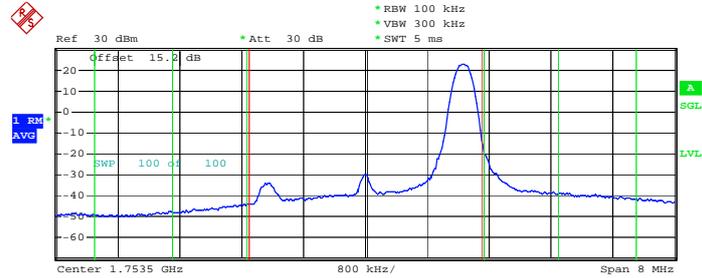
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 19.MAR.2013 07:18:11



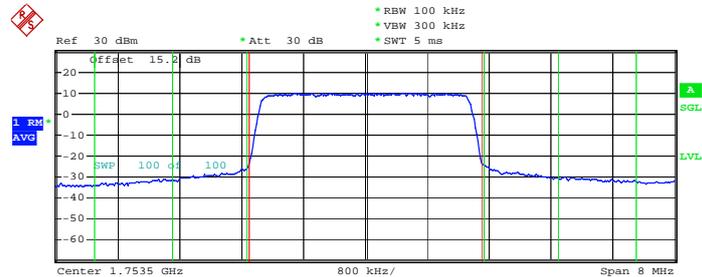
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-17.69 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	3 MHz	Upper	-30.43 dBm

Date: 19.MAR.2013 07:20:04

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



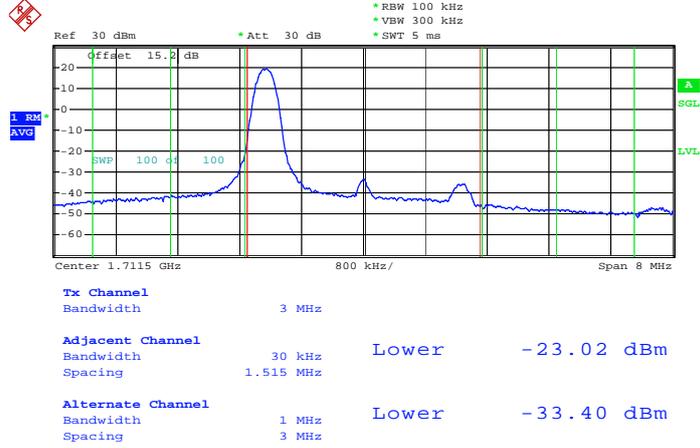
<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-28.88 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	3 MHz	Upper	-21.66 dBm

Date: 19.MAR.2013 07:20:50



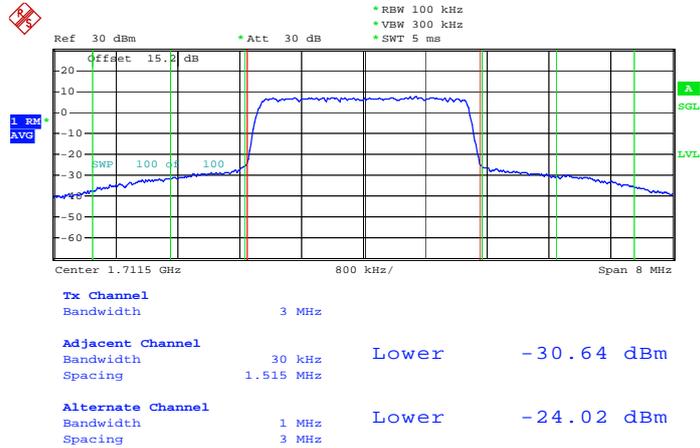
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 07:18:48

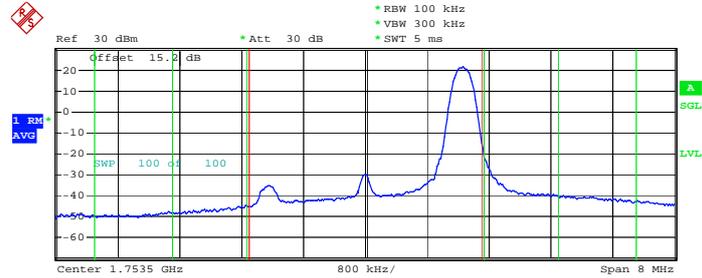
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 19.MAR.2013 07:17:54



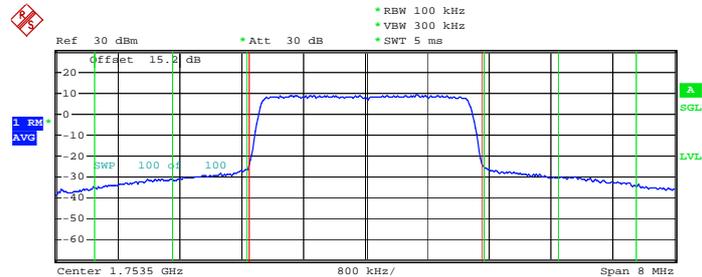
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-19.30 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	3 MHz	Upper	-31.60 dBm

Date: 19.MAR.2013 07:19:47

Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



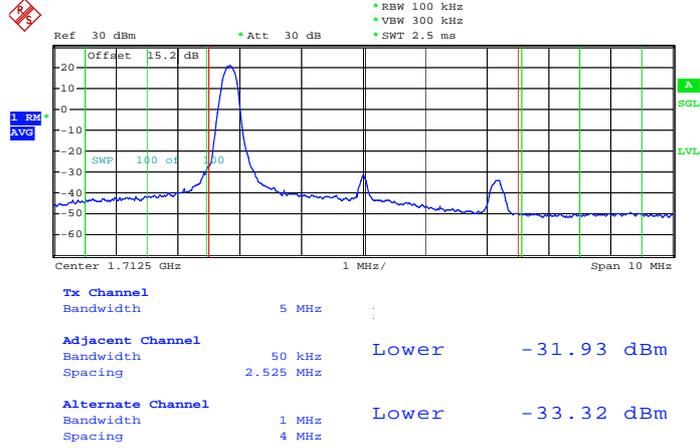
<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-28.92 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	3 MHz	Upper	-21.93 dBm

Date: 19.MAR.2013 07:21:09



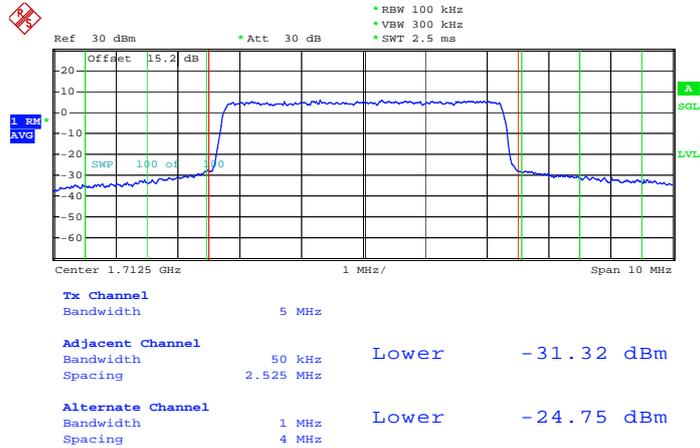
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 07:24:37

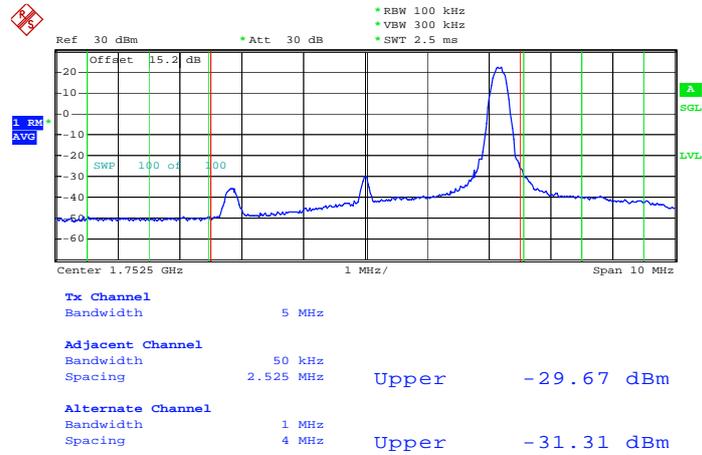
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 19.MAR.2013 07:24:21

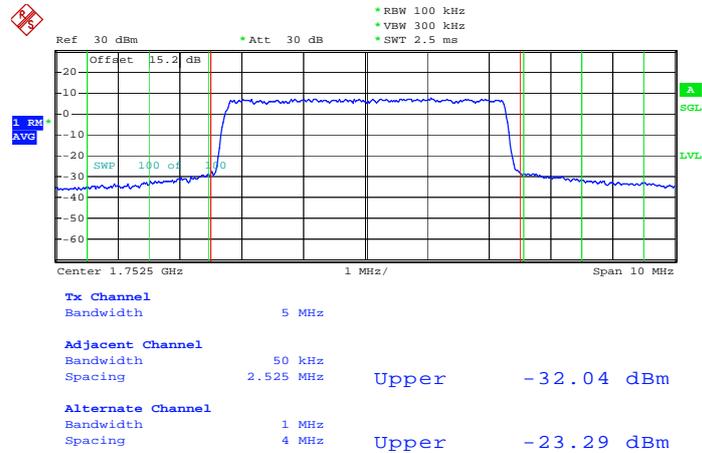


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 19.MAR.2013 07:26:18

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

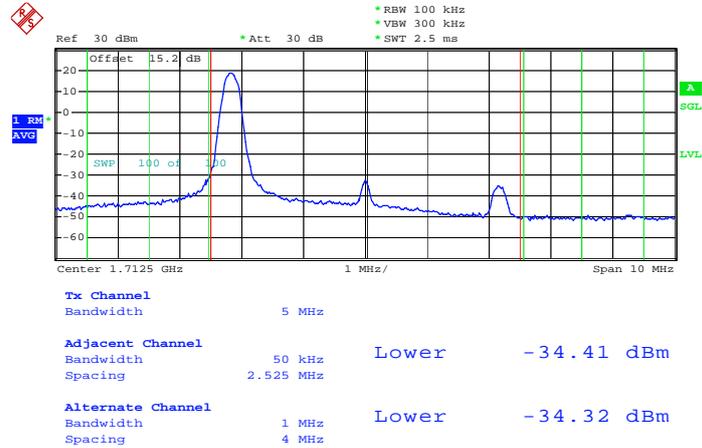


Date: 19.MAR.2013 07:26:46



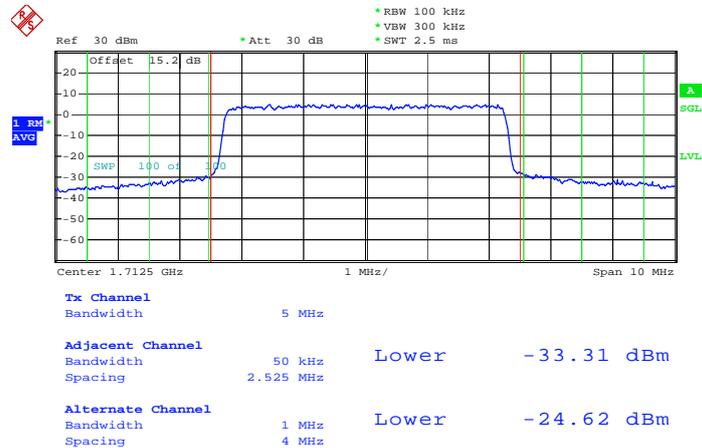
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 07:25:07

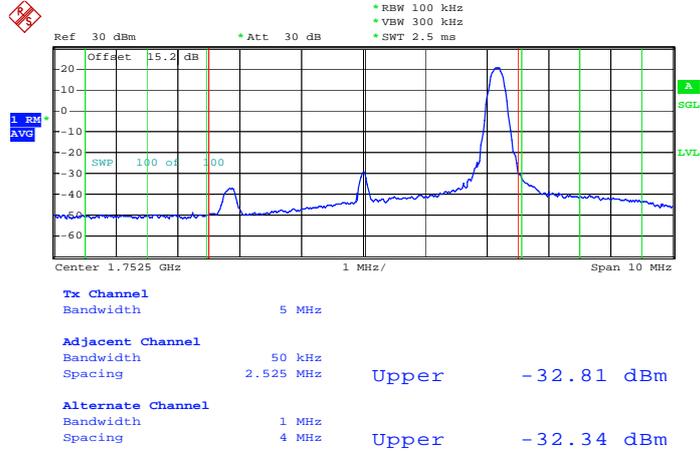
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 19.MAR.2013 07:24:05

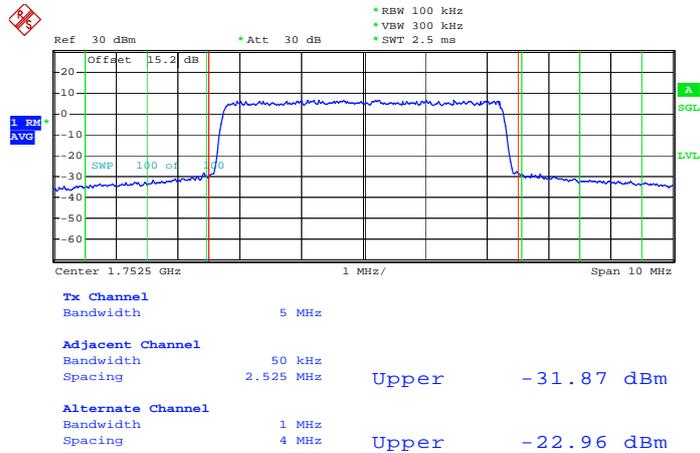


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 19.MAR.2013 07:26:04

Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0

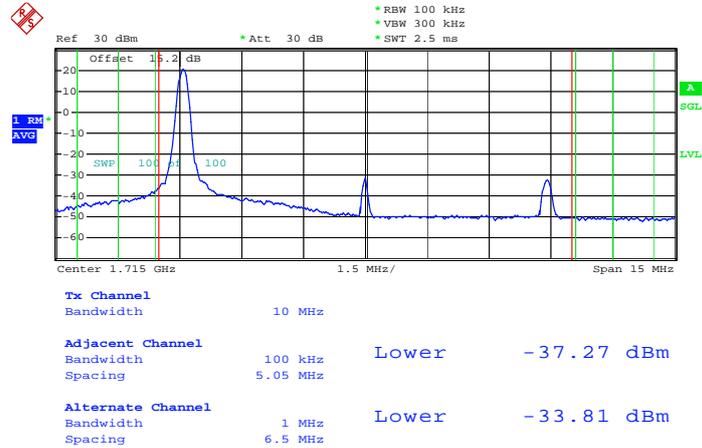


Date: 19.MAR.2013 07:27:08



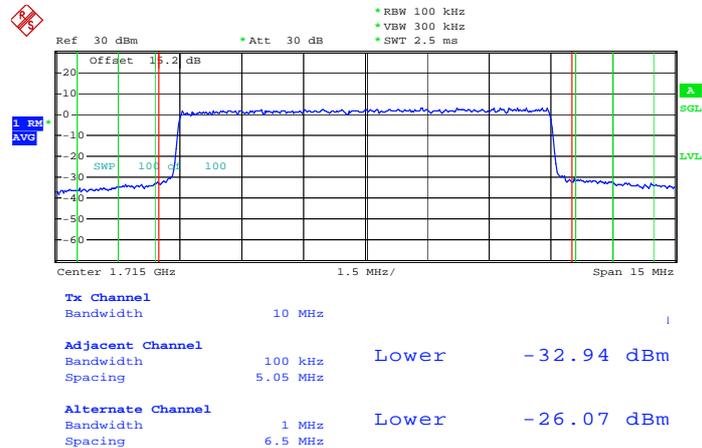
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 07:30:45

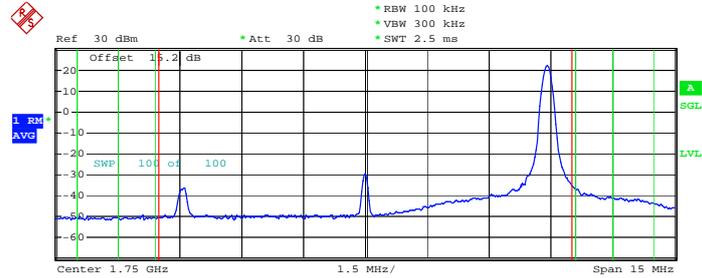
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 19.MAR.2013 07:30:30



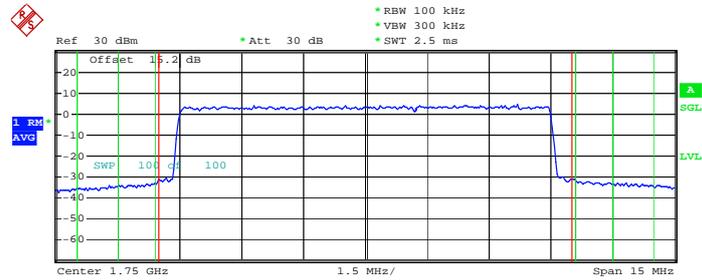
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



<b>Tx Channel</b>			
Bandwidth	10 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	5.05 MHz	Upper	-36.26 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	6.5 MHz	Upper	-32.36 dBm

Date: 19.MAR.2013 07:32:19

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



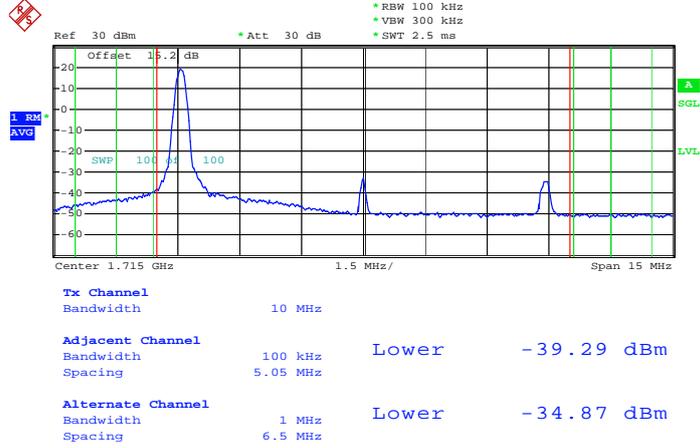
<b>Tx Channel</b>			
Bandwidth	10 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	5.05 MHz	Upper	-31.43 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	6.5 MHz	Upper	-24.07 dBm

Date: 19.MAR.2013 07:32:48



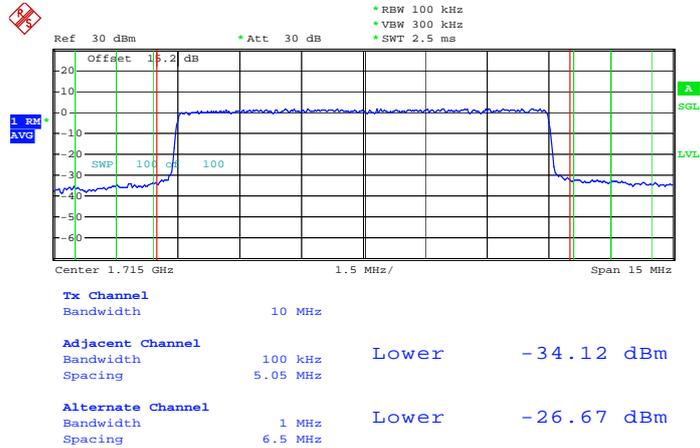
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 07:30:59

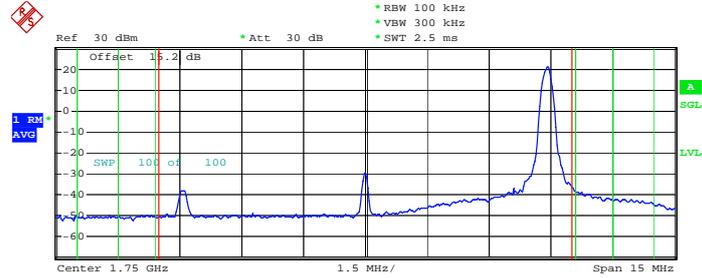
Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 19.MAR.2013 07:30:07



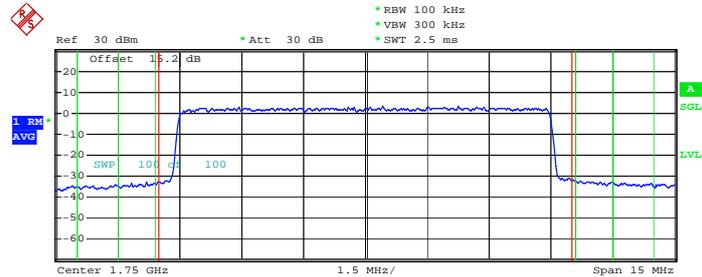
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



<b>Tx Channel</b>			
Bandwidth	10 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	5.05 MHz	Upper	-37.63 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	6.5 MHz	Upper	-33.29 dBm

Date: 19.MAR.2013 07:32:04

Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



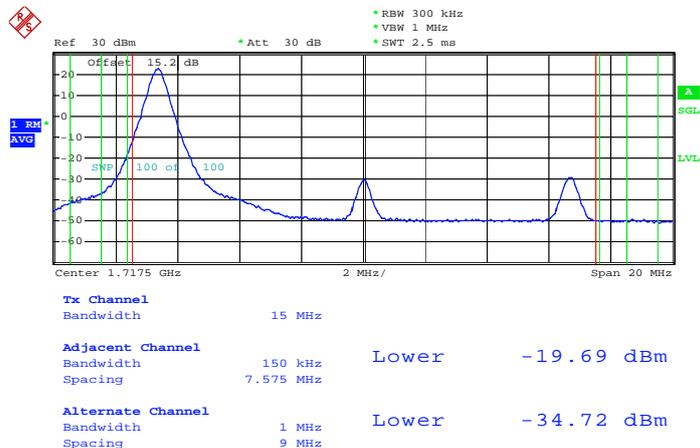
<b>Tx Channel</b>			
Bandwidth	10 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	5.05 MHz	Upper	-32.39 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	6.5 MHz	Upper	-24.31 dBm

Date: 19.MAR.2013 07:33:13



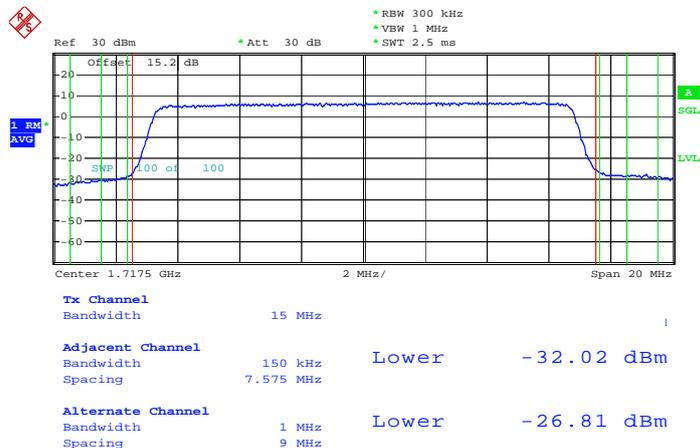
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	15MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 07:39:18

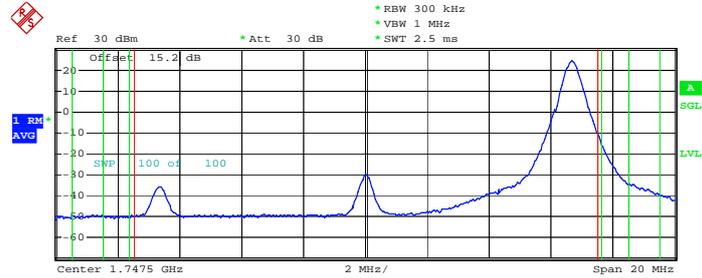
Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



Date: 19.MAR.2013 07:38:20



Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



Ref 30 dBm Att 30 dB RBW 300 kHz VBW 1 MHz SWT 2.5 ms

Offset 15.2 dB

Center 1.7475 GHz 2 MHz/ Span 20 MHz

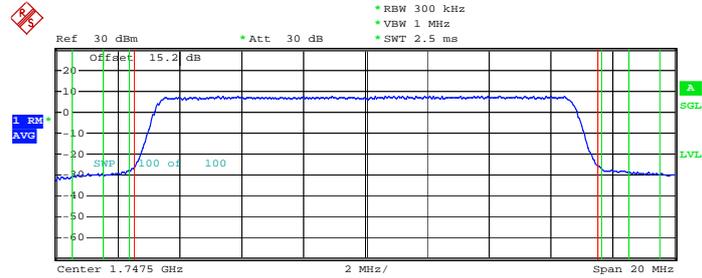
**Tx Channel**  
Bandwidth 15 MHz

**Adjacent Channel**  
Bandwidth 150 kHz  
Spacing 7.575 MHz Upper -15.88 dBm

**Alternate Channel**  
Bandwidth 1 MHz  
Spacing 9 MHz Upper -31.99 dBm

Date: 19.MAR.2013 07:40:30

Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0



Ref 30 dBm Att 30 dB RBW 300 kHz VBW 1 MHz SWT 2.5 ms

Offset 15.2 dB

Center 1.7475 GHz 2 MHz/ Span 20 MHz

**Tx Channel**  
Bandwidth 15 MHz

**Adjacent Channel**  
Bandwidth 150 kHz  
Spacing 7.575 MHz Upper -29.91 dBm

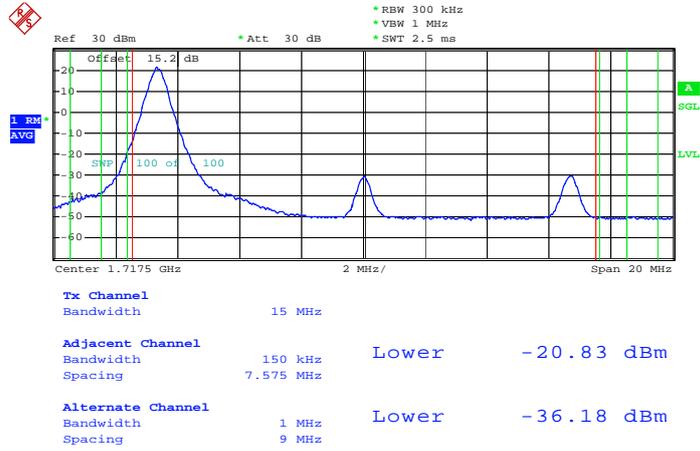
**Alternate Channel**  
Bandwidth 1 MHz  
Spacing 9 MHz Upper -24.68 dBm

Date: 19.MAR.2013 07:41:21



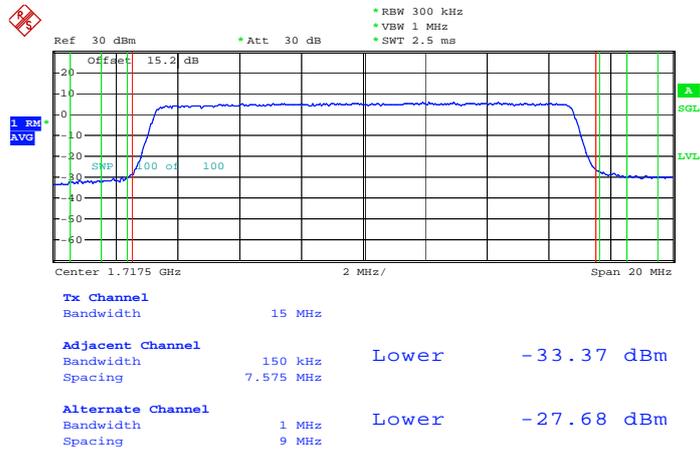
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	15MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 07:39:02

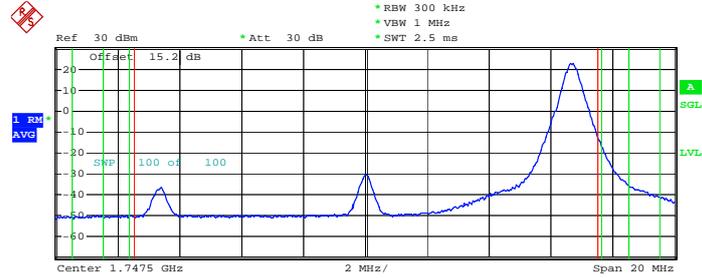
Lower Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



Date: 19.MAR.2013 07:38:40



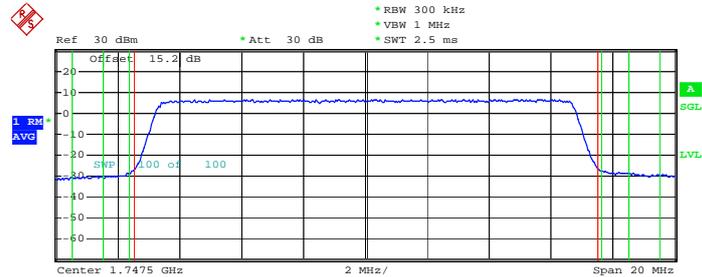
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 74



<b>Tx Channel</b>	Bandwidth	15 MHz		
<b>Adjacent Channel</b>	Bandwidth	150 kHz		
	Spacing	7.575 MHz	Upper	-17.54 dBm
<b>Alternate Channel</b>	Bandwidth	1 MHz		
	Spacing	9 MHz	Upper	-33.57 dBm

Date: 19.MAR.2013 07:40:47

Higher Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



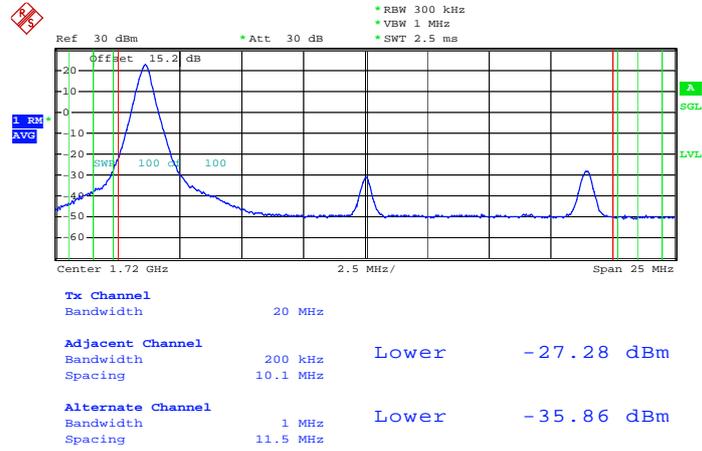
<b>Tx Channel</b>	Bandwidth	15 MHz		
<b>Adjacent Channel</b>	Bandwidth	150 kHz		
	Spacing	7.575 MHz	Upper	-30.84 dBm
<b>Alternate Channel</b>	Bandwidth	1 MHz		
	Spacing	9 MHz	Upper	-24.96 dBm

Date: 19.MAR.2013 07:41:06



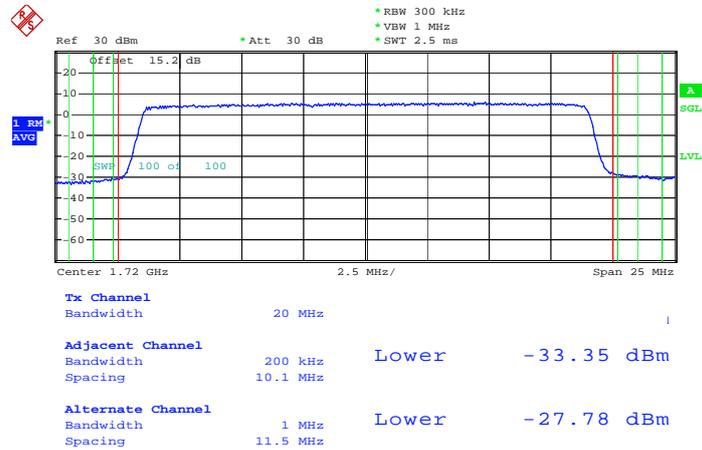
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	20MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 07:44:24

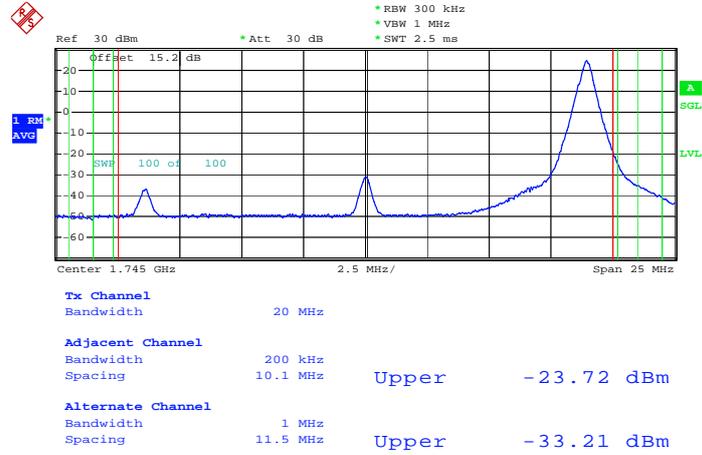
Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



Date: 19.MAR.2013 07:43:31

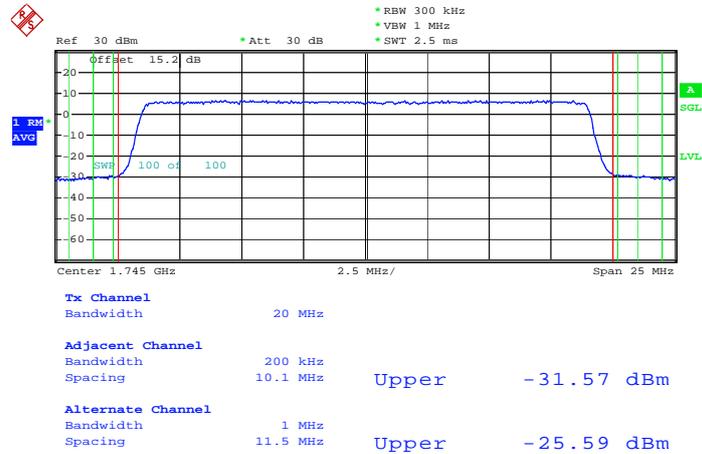


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



Date: 19.MAR.2013 07:45:23

Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0

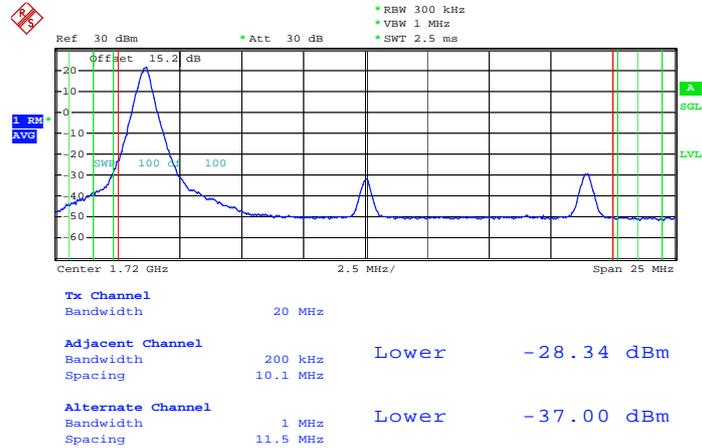


Date: 19.MAR.2013 07:46:21



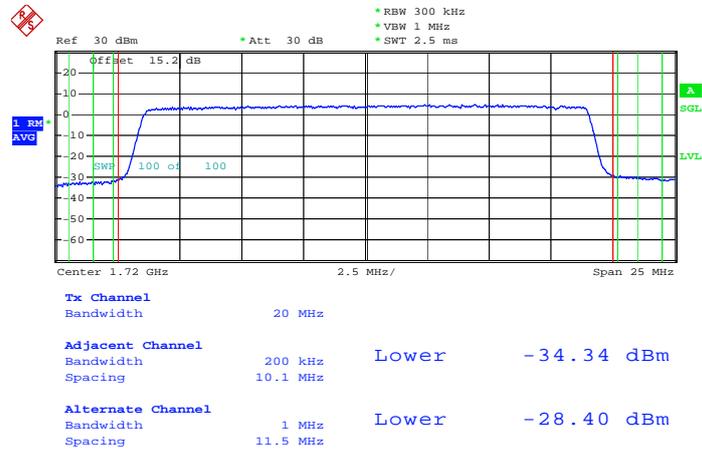
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	20MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 07:44:08

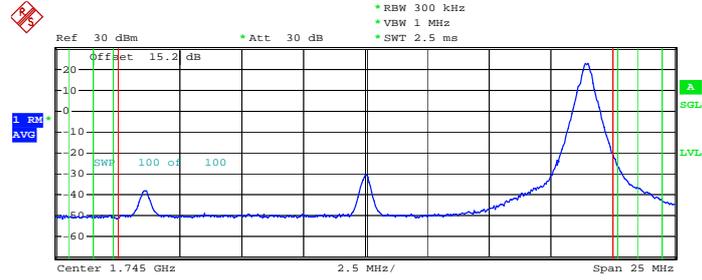
Lower Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



Date: 19.MAR.2013 07:43:45



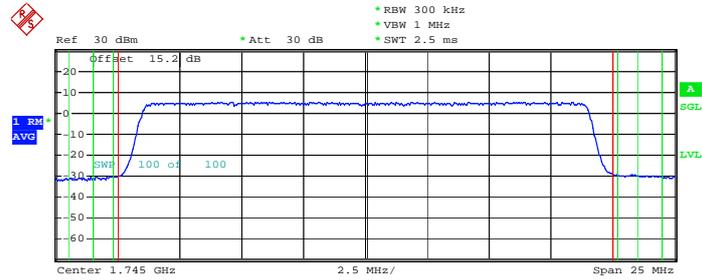
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 99



<b>Tx Channel</b>			
Bandwidth	20 MHz		
<b>Adjacent Channel</b>			
Bandwidth	200 kHz		
Spacing	10.1 MHz	Upper	-25.25 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	11.5 MHz	Upper	-34.72 dBm

Date: 19.MAR.2013 07:45:40

Higher Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



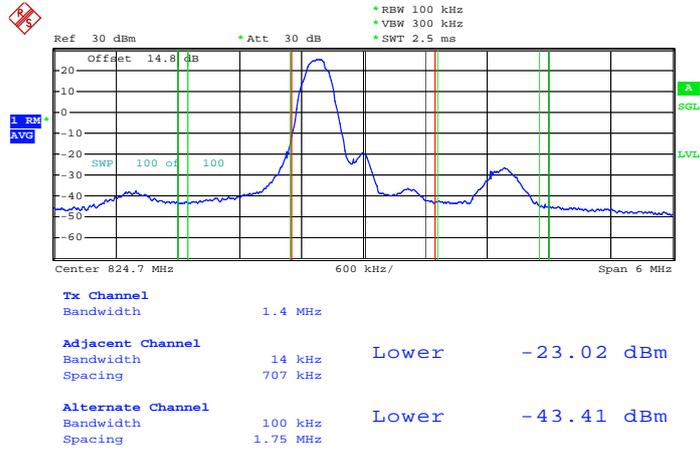
<b>Tx Channel</b>			
Bandwidth	20 MHz		
<b>Adjacent Channel</b>			
Bandwidth	200 kHz		
Spacing	10.1 MHz	Upper	-31.93 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	11.5 MHz	Upper	-25.68 dBm

Date: 19.MAR.2013 07:46:06



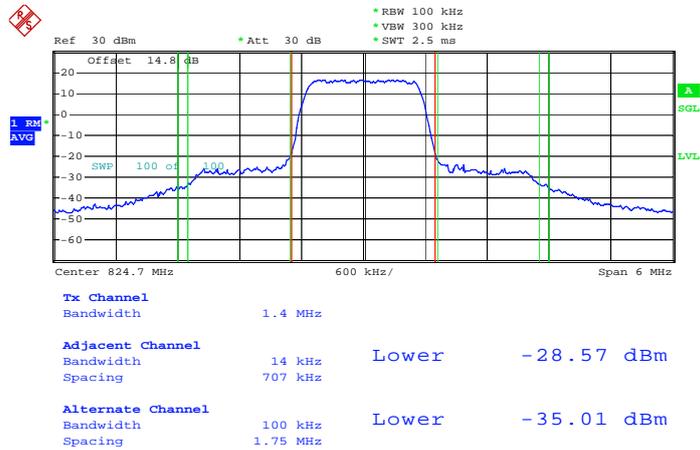
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	1.4MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 09:10:48

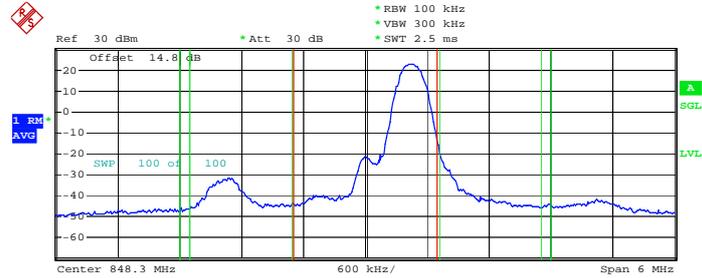
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 19.MAR.2013 09:09:49



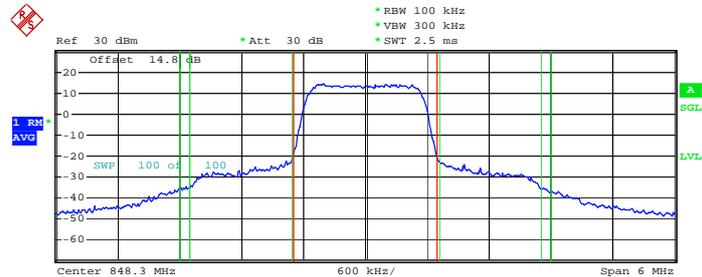
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-22.91 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz	Upper	-44.99 dBm
Spacing	1.75 MHz		

Date: 19.MAR.2013 09:11:39

Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0



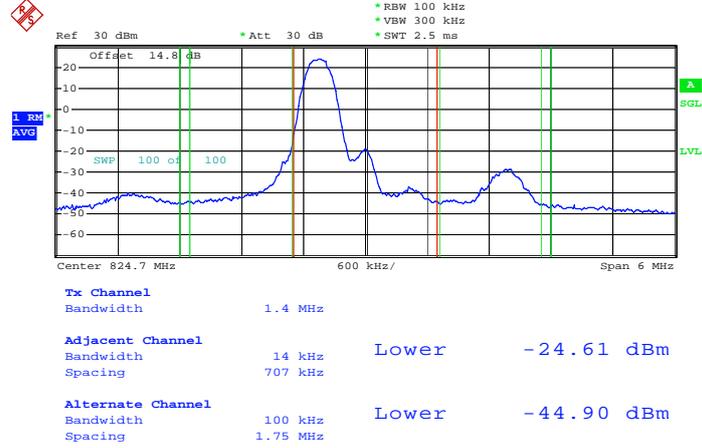
<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-30.37 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz	Upper	-36.40 dBm
Spacing	1.75 MHz		

Date: 19.MAR.2013 09:12:38



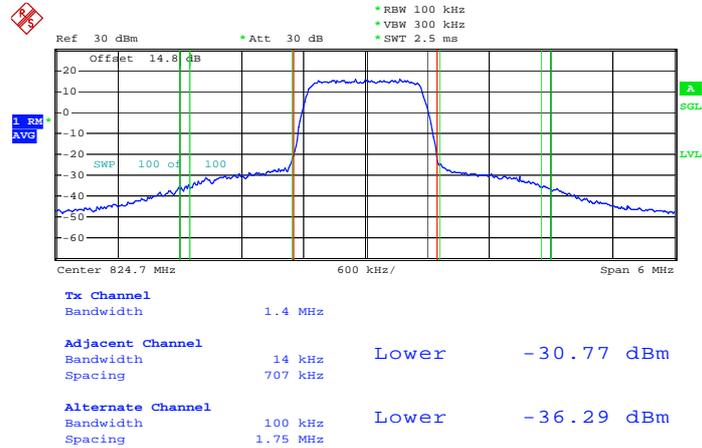
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 09:10:28

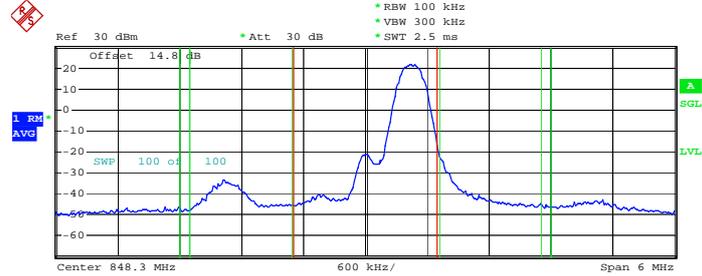
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 19.MAR.2013 09:10:08



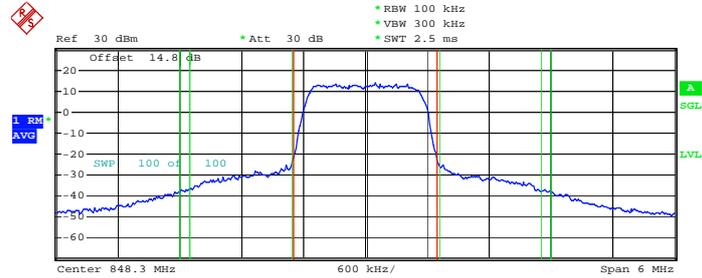
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-25.78 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	1.75 MHz	Upper	-46.02 dBm

Date: 19.MAR.2013 09:11:57

Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



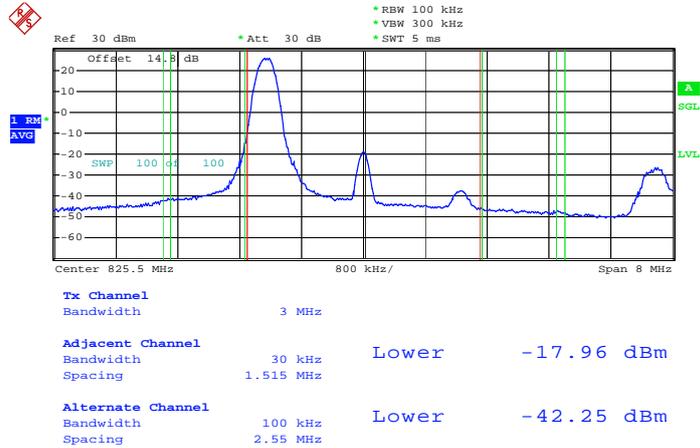
<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-32.31 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	1.75 MHz	Upper	-37.54 dBm

Date: 19.MAR.2013 09:12:24



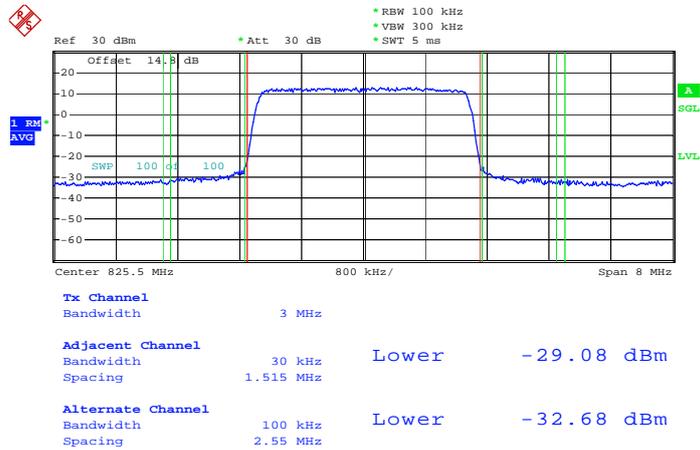
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 08:47:35

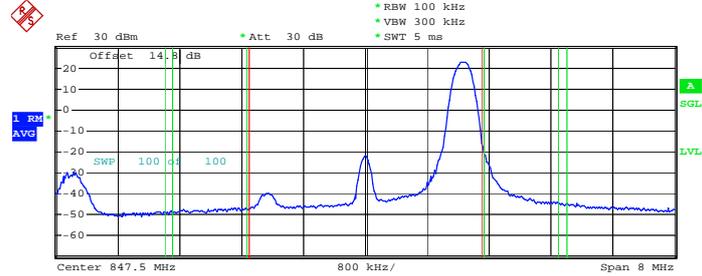
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 19.MAR.2013 08:47:16



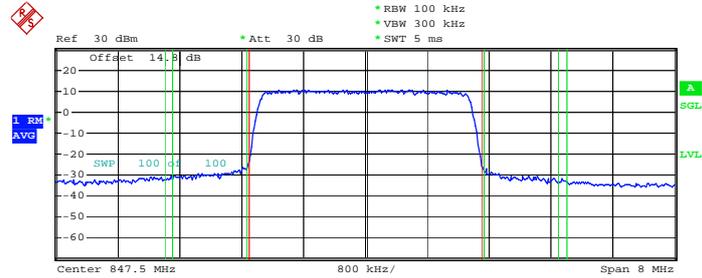
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-19.05 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	2.55 MHz	Upper	-44.95 dBm

Date: 19.MAR.2013 08:49:12

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



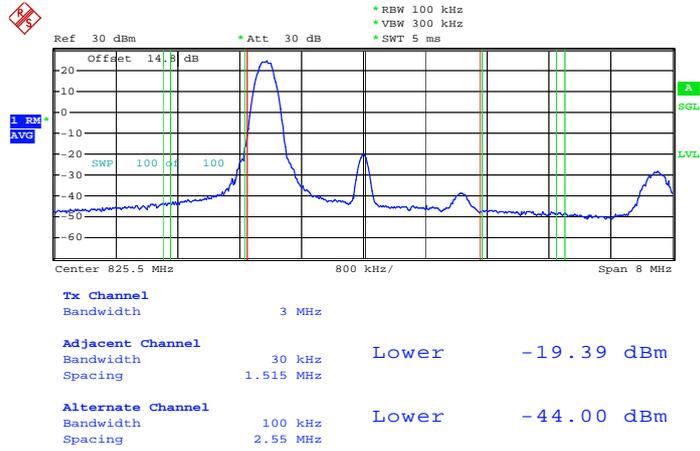
<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-30.05 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	2.55 MHz	Upper	-32.94 dBm

Date: 19.MAR.2013 08:49:30



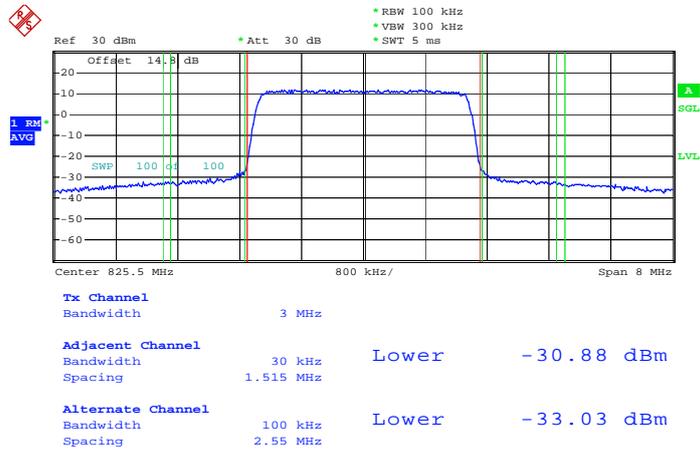
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 08:47:53

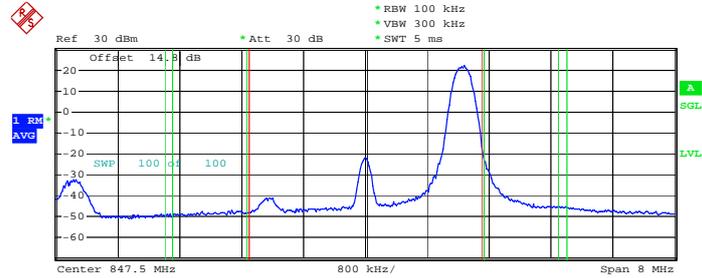
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 19.MAR.2013 08:47:00



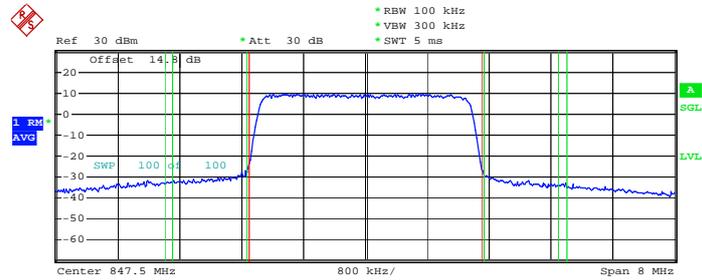
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-19.87 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	2.55 MHz	Upper	-45.62 dBm

Date: 19.MAR.2013 08:48:54

Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



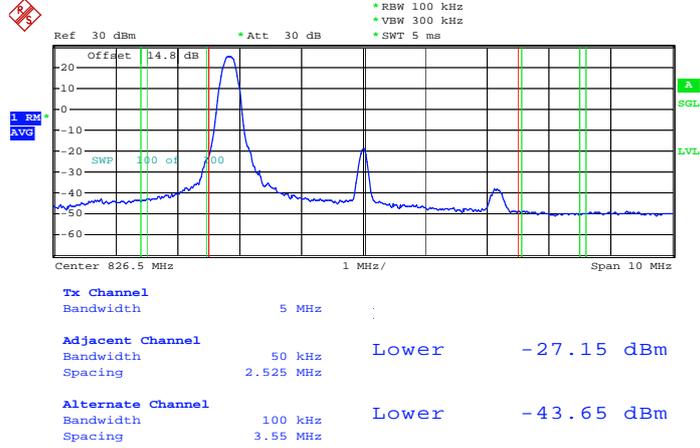
<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-31.10 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	2.55 MHz	Upper	-34.08 dBm

Date: 19.MAR.2013 08:49:48



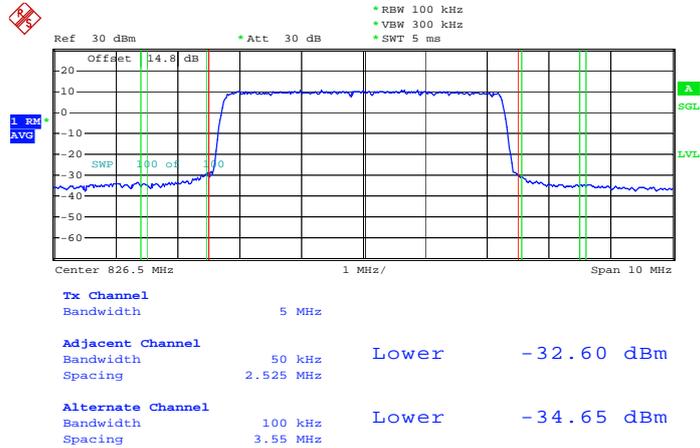
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 09:17:56

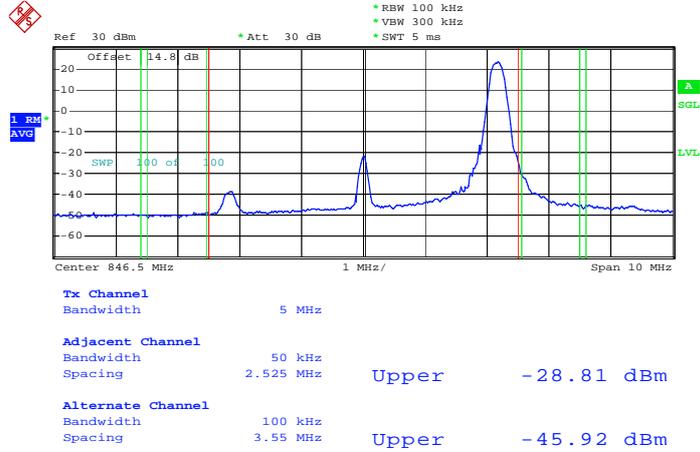
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 19.MAR.2013 09:18:48

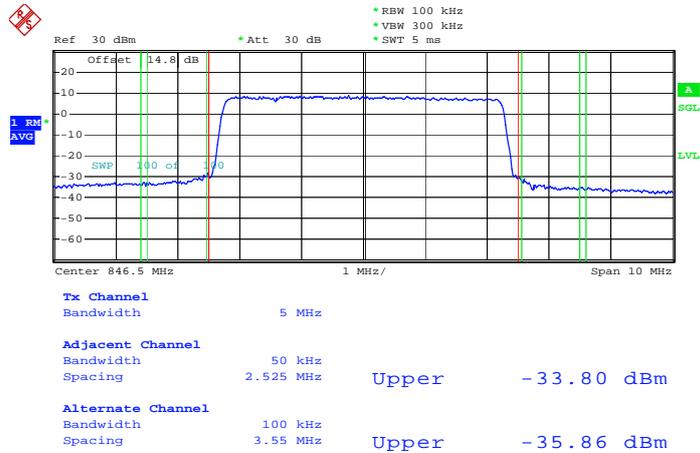


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 19.MAR.2013 09:17:15

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

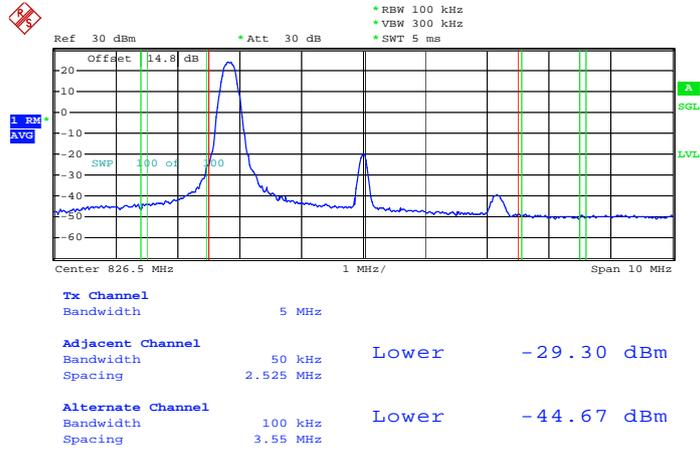


Date: 19.MAR.2013 09:16:13



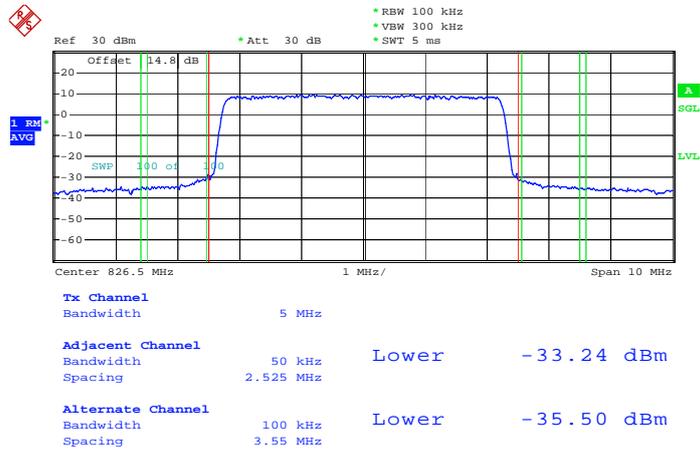
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 09:18:12

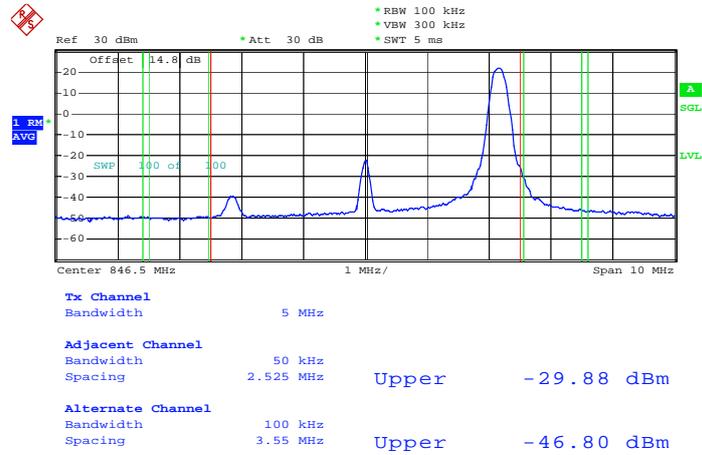
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 19.MAR.2013 09:18:32

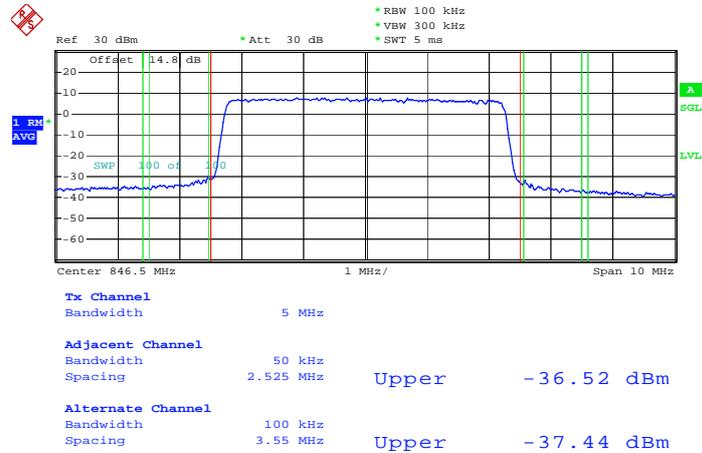


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 19.MAR.2013 09:17:00

Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0

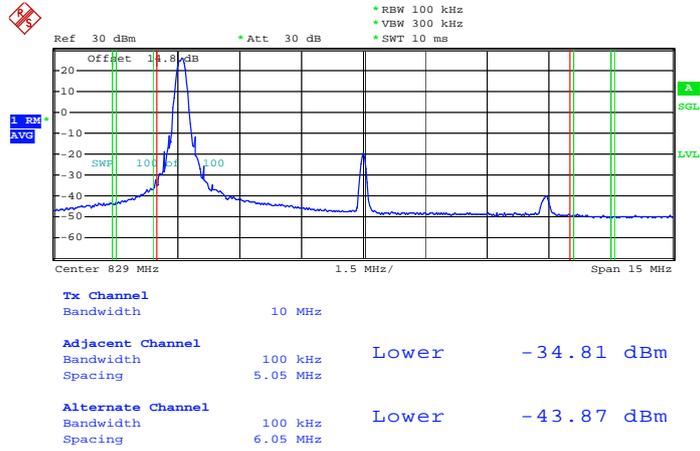


Date: 19.MAR.2013 09:16:34



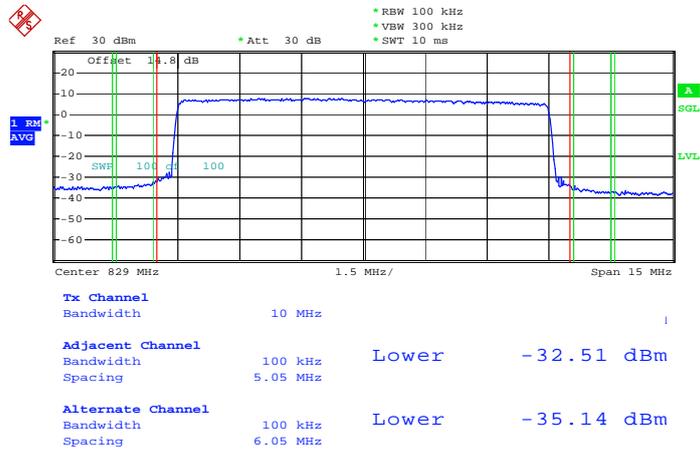
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.MAR.2013 09:23:09

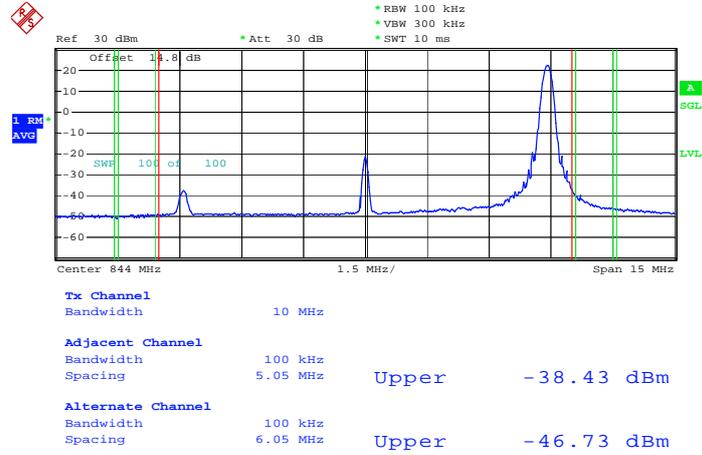
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 19.MAR.2013 09:21:49

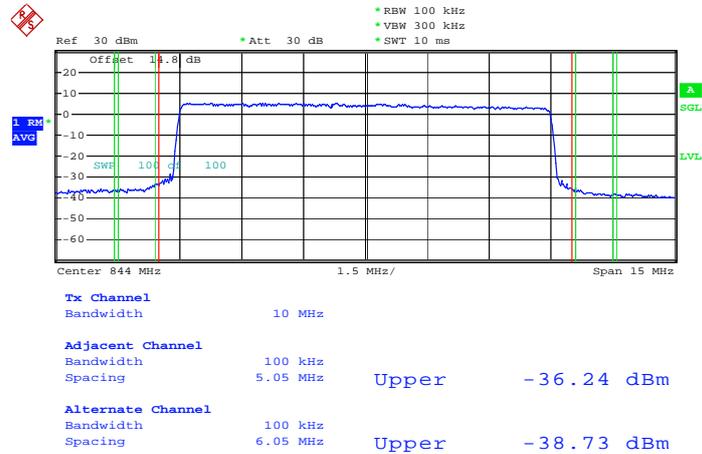


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 19.MAR.2013 09:24:08

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

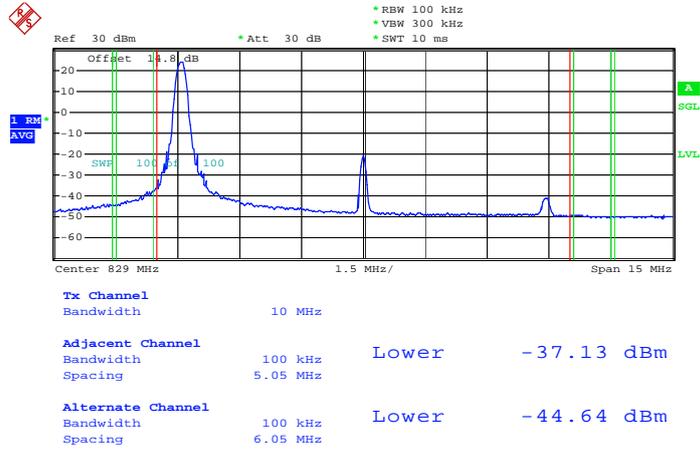


Date: 19.MAR.2013 09:24:30



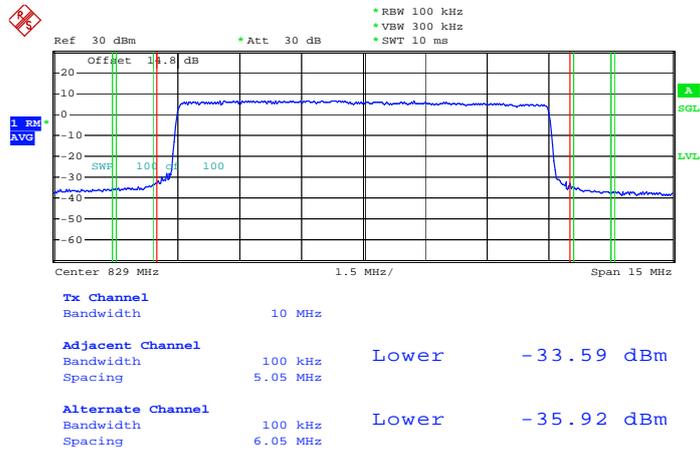
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 19.MAR.2013 09:22:44

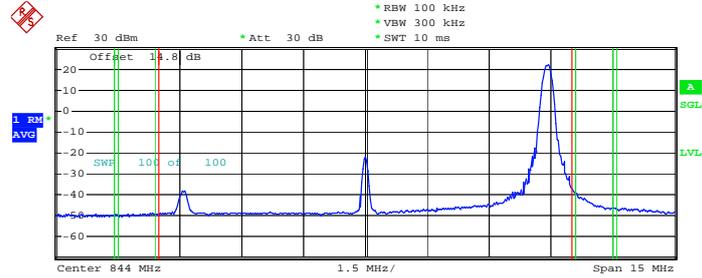
Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 19.MAR.2013 09:22:03



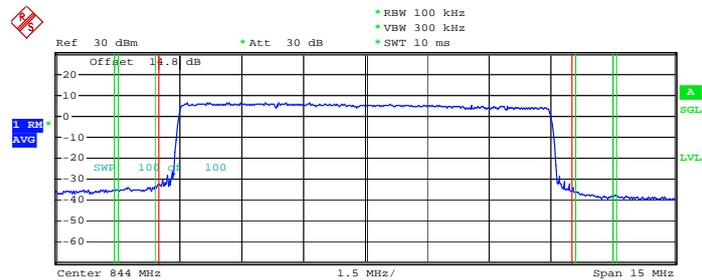
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



<b>Tx Channel</b>	Bandwidth	10 MHz		
<b>Adjacent Channel</b>	Bandwidth	100 kHz	Upper	-37.94 dBm
	Spacing	5.05 MHz		
<b>Alternate Channel</b>	Bandwidth	100 kHz	Upper	-46.72 dBm
	Spacing	6.05 MHz		

Date: 19.MAR.2013 09:26:16

Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



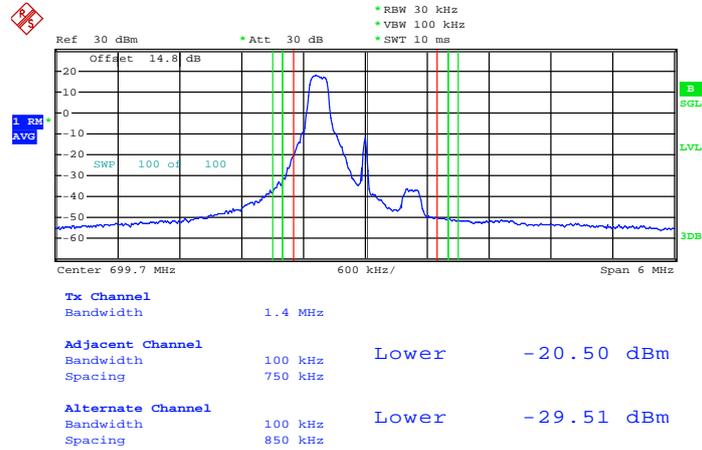
<b>Tx Channel</b>	Bandwidth	10 MHz		
<b>Adjacent Channel</b>	Bandwidth	100 kHz	Upper	-35.56 dBm
	Spacing	5.05 MHz		
<b>Alternate Channel</b>	Bandwidth	100 kHz	Upper	-38.28 dBm
	Spacing	6.05 MHz		

Date: 19.MAR.2013 09:24:58



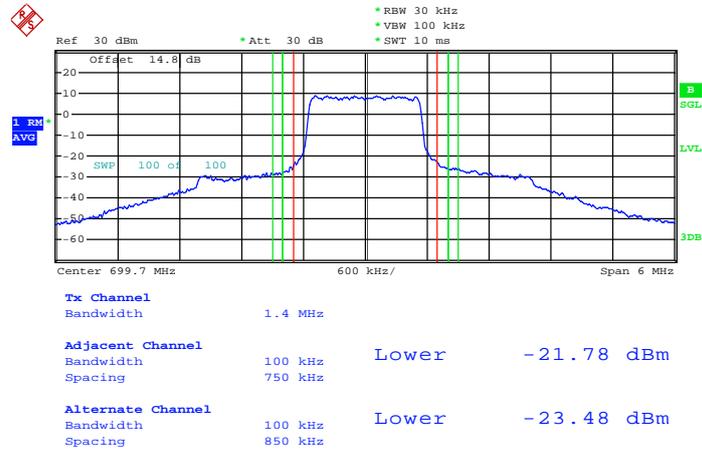
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	1.4MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 22.MAR.2013 08:06:09

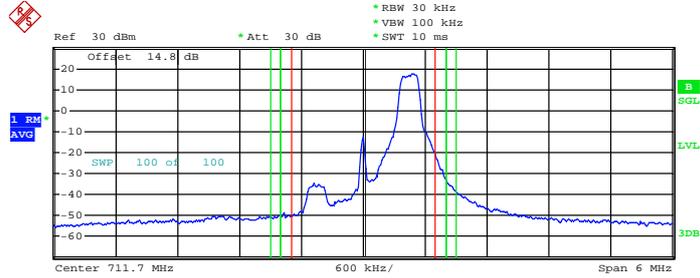
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 22.MAR.2013 08:11:34



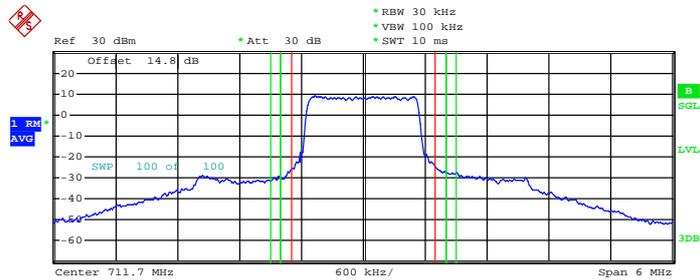
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	750 kHz	Upper	-20.38 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	850 kHz	Upper	-30.43 dBm

Date: 22.MAR.2013 08:09:45

Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0



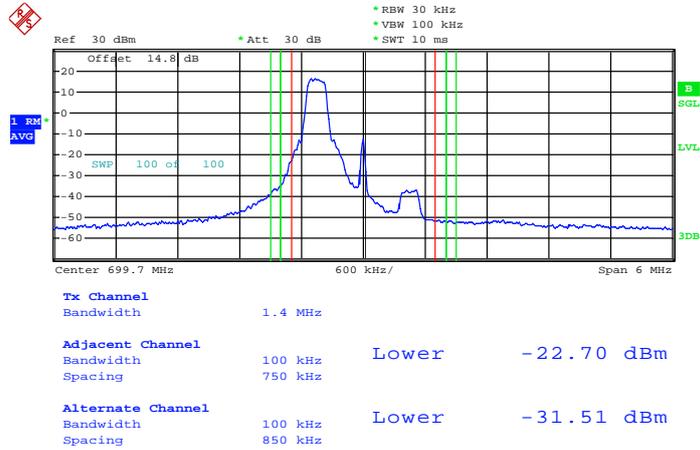
<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	750 kHz	Upper	-21.48 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	850 kHz	Upper	-23.01 dBm

Date: 22.MAR.2013 08:10:22



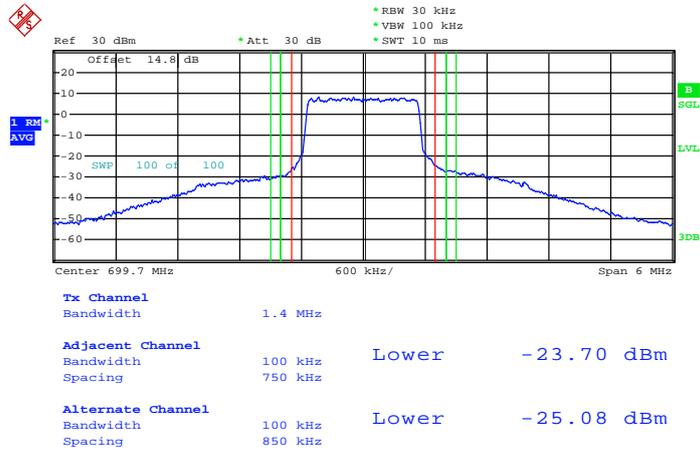
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 22.MAR.2013 08:06:24

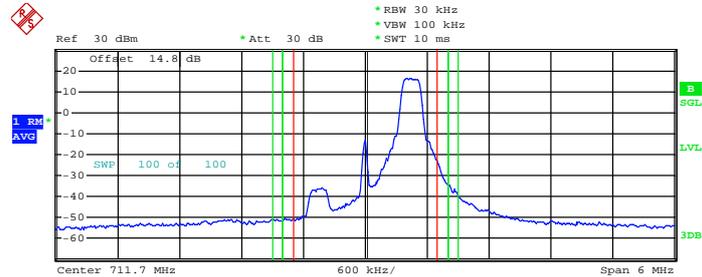
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 22.MAR.2013 08:11:16



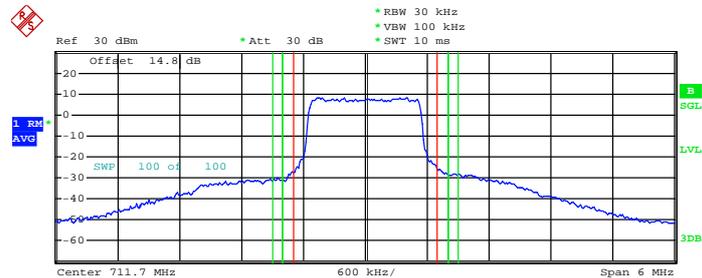
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	750 kHz	Upper	-22.80 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	850 kHz	Upper	-31.48 dBm

Date: 22.MAR.2013 08:09:29

Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



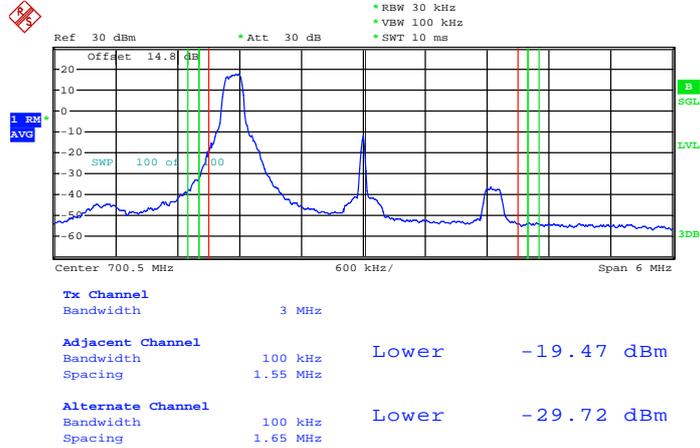
<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	750 kHz	Upper	-22.01 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	850 kHz	Upper	-23.47 dBm

Date: 22.MAR.2013 08:10:37



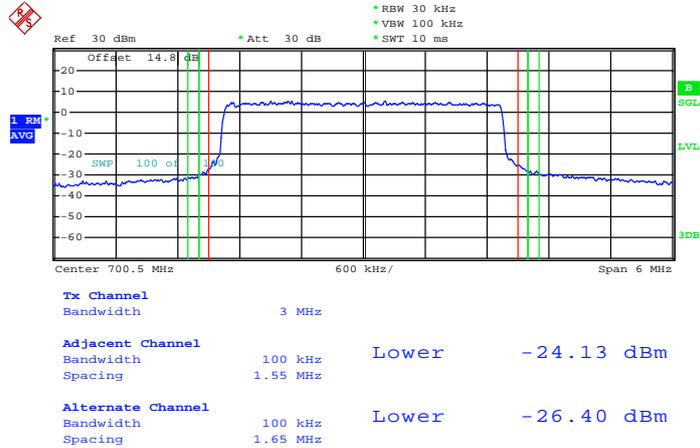
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 22.MAR.2013 08:14:41

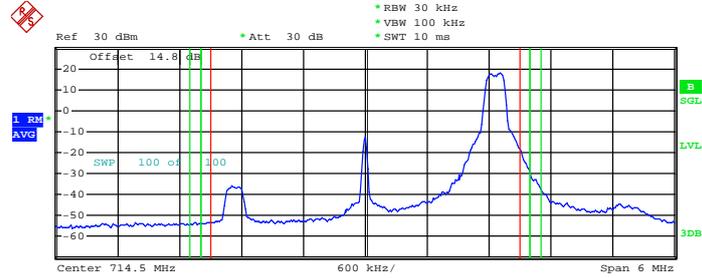
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 22.MAR.2013 08:15:46



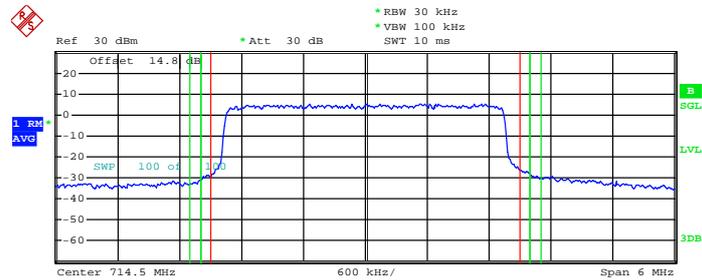
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	1.55 MHz	Upper	-17.52 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	1.65 MHz	Upper	-28.15 dBm

Date: 22.MAR.2013 08:16:43

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



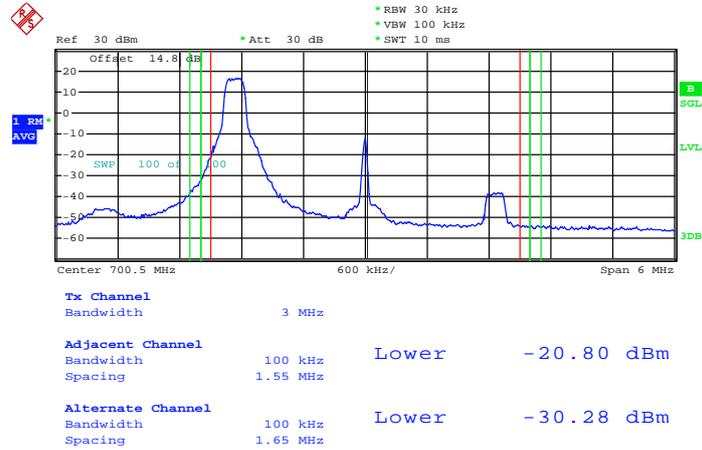
<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	1.55 MHz	Upper	-22.22 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	1.65 MHz	Upper	-24.49 dBm

Date: 22.MAR.2013 08:37:53



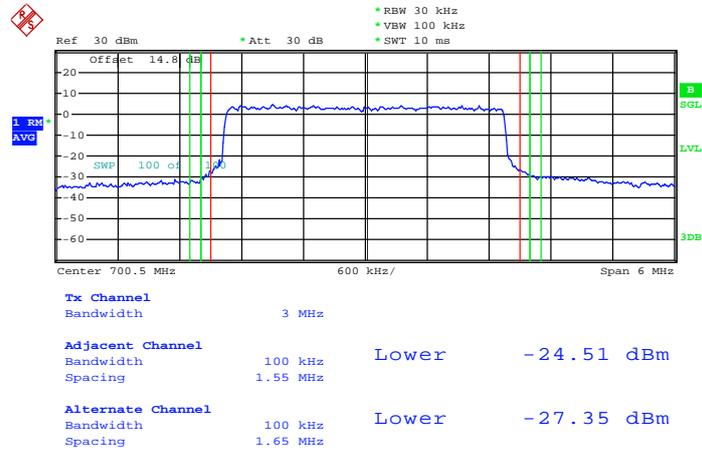
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	3MHz / 16QAM
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**Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0**



Date: 22.MAR.2013 08:14:56

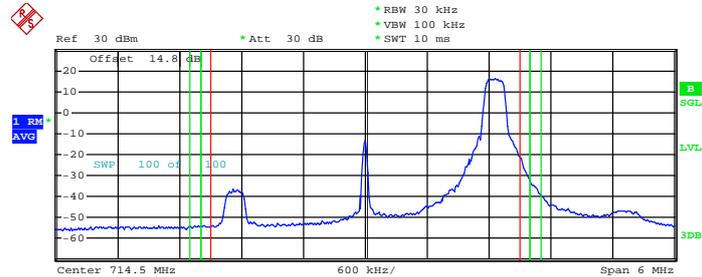
**Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0**



Date: 22.MAR.2013 08:15:25



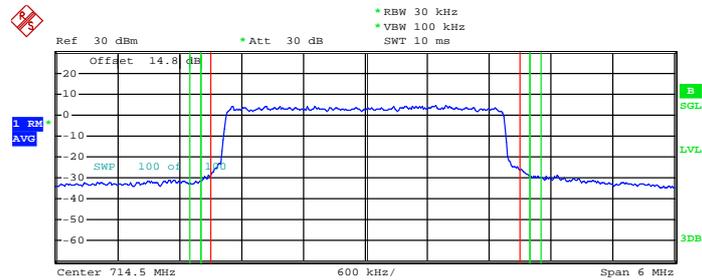
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	1.55 MHz	Upper	-20.56 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	1.65 MHz	Upper	-30.57 dBm

Date: 22.MAR.2013 08:17:08

Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



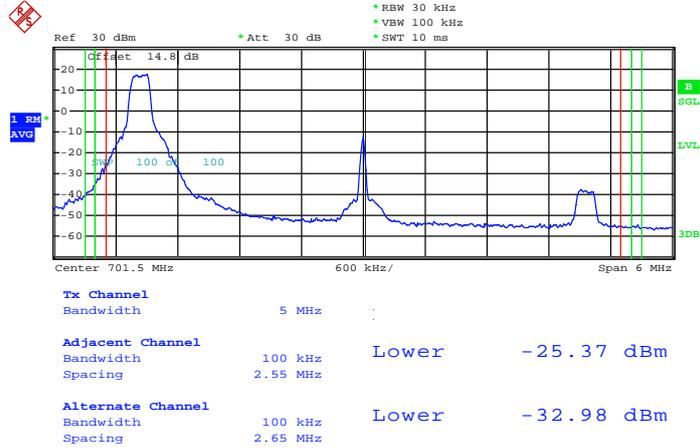
<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	1.55 MHz	Upper	-22.55 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	1.65 MHz	Upper	-24.60 dBm

Date: 22.MAR.2013 08:38:18



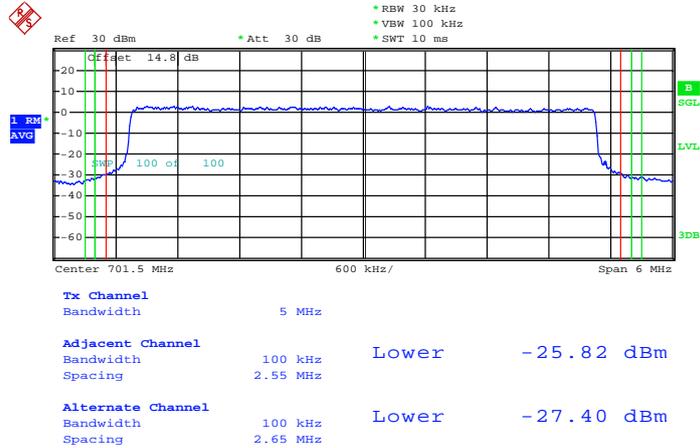
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 22.MAR.2013 08:21:16

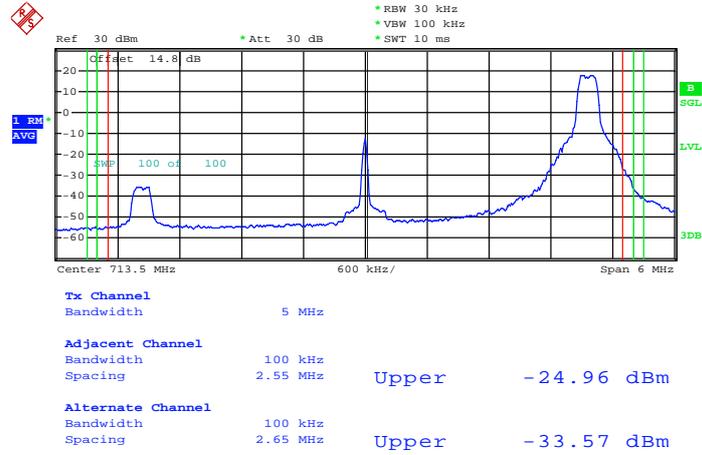
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 22.MAR.2013 08:20:14

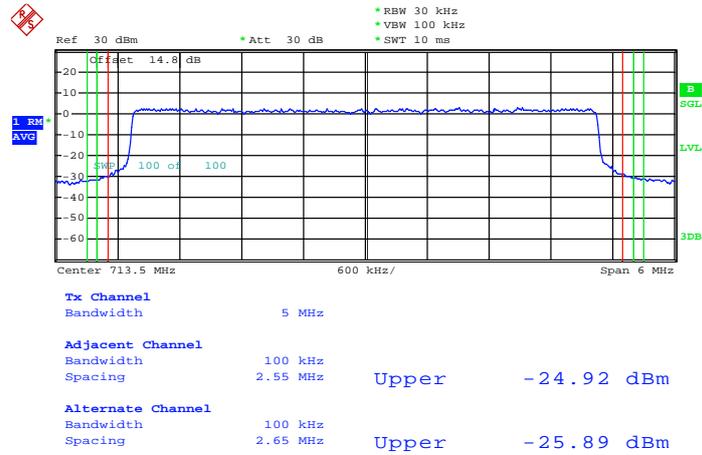


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 22.MAR.2013 08:22:09

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

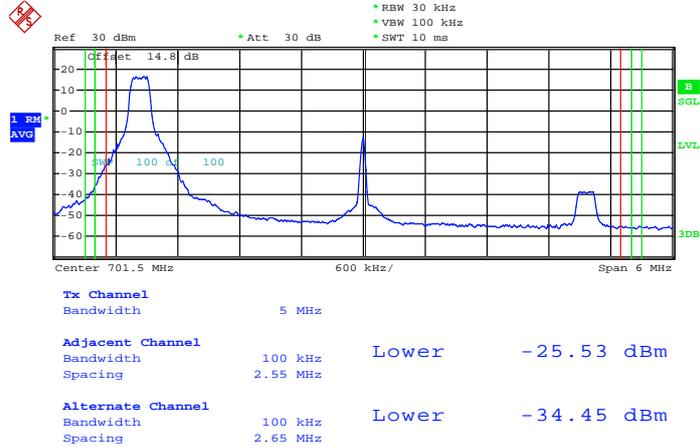


Date: 22.MAR.2013 08:23:11



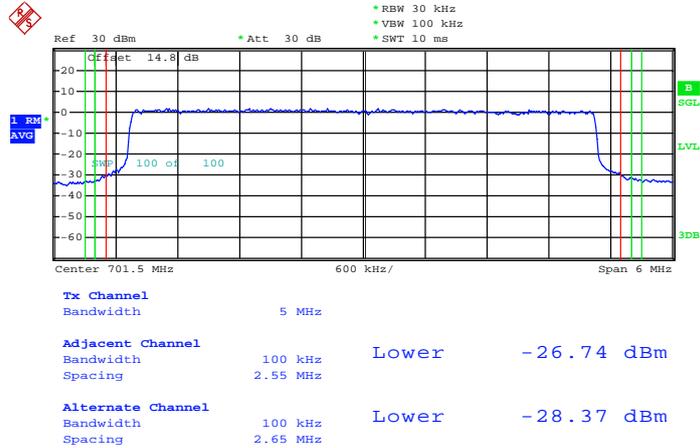
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 22.MAR.2013 08:20:55

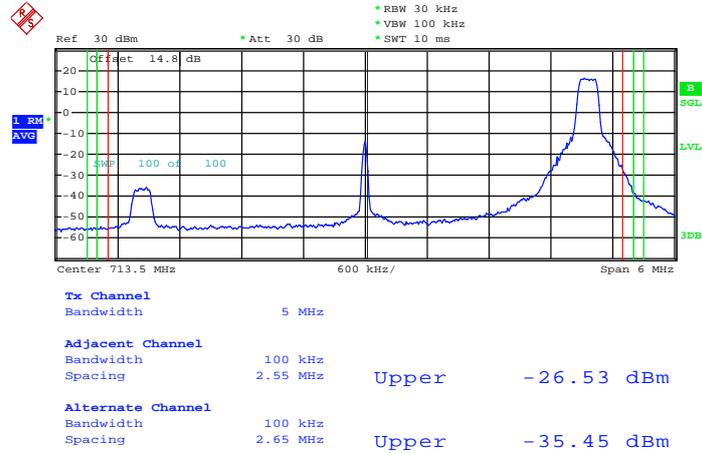
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 22.MAR.2013 08:20:32

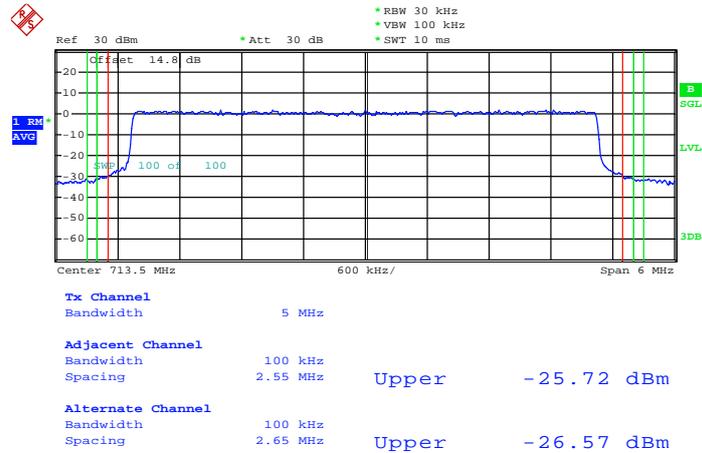


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 22.MAR.2013 08:22:28

Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0

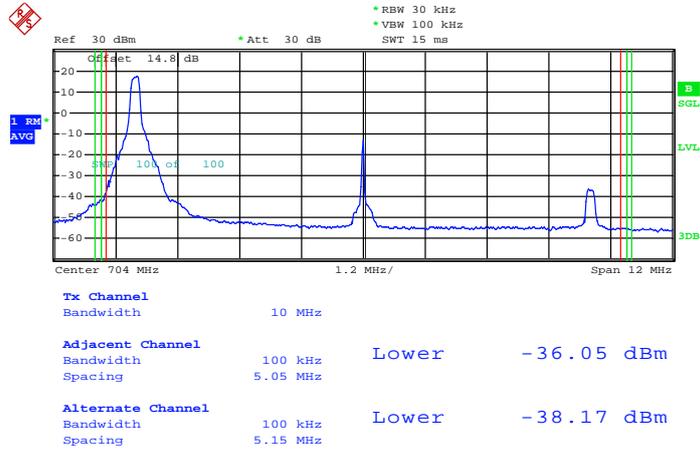


Date: 22.MAR.2013 08:22:47



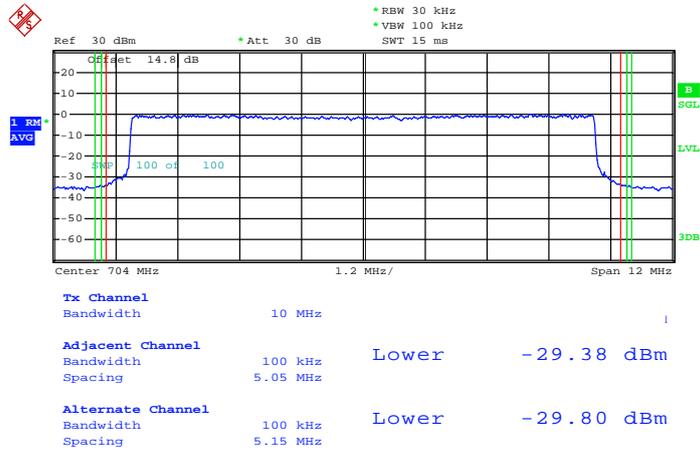
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 22.MAR.2013 08:26:14

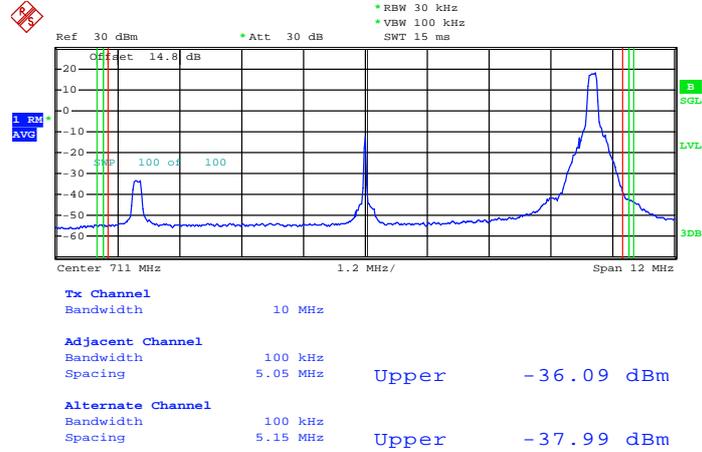
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 22.MAR.2013 08:27:18

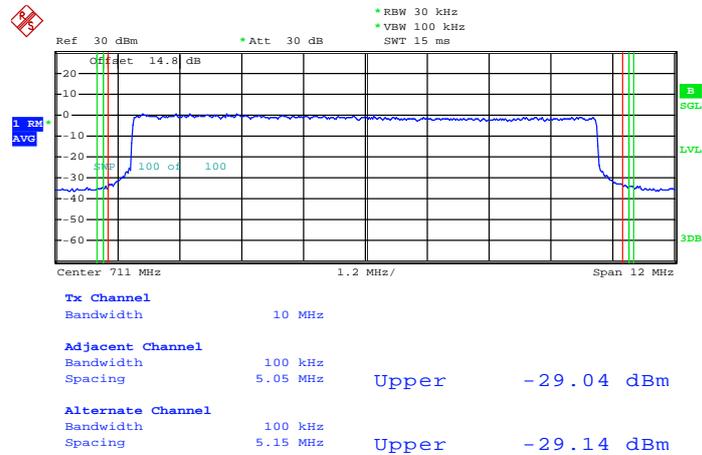


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 22.MAR.2013 08:29:28

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

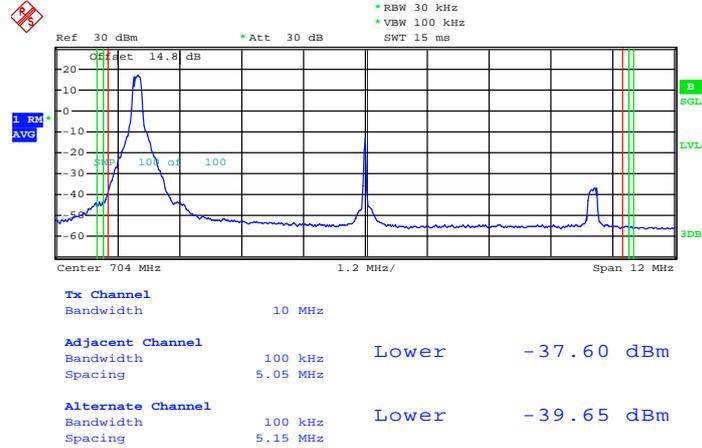


Date: 22.MAR.2013 08:30:42



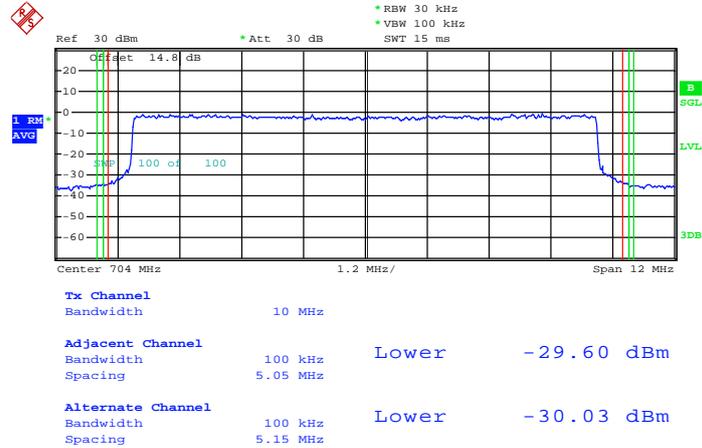
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	10MHz / 16QAM
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**Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0**



Date: 22.MAR.2013 08:26:34

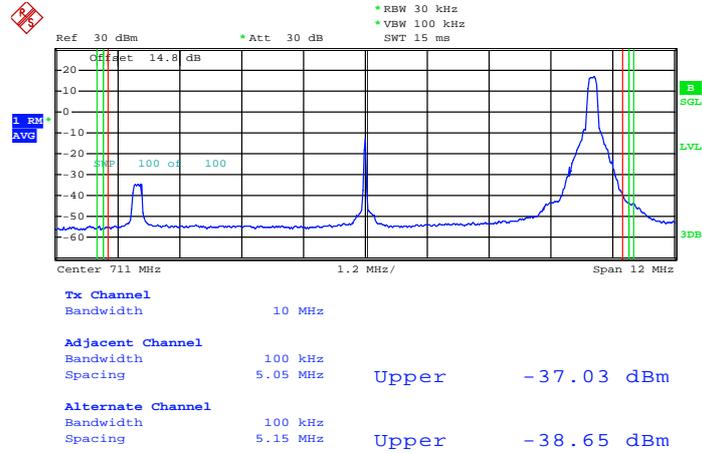
**Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0**



Date: 22.MAR.2013 08:26:57

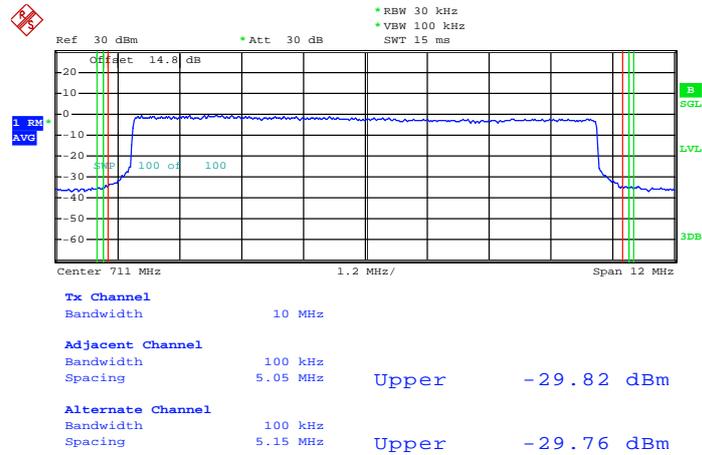


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



Date: 22.MAR.2013 08:29:53

Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 22.MAR.2013 08:30:18

### 3.5 Conducted Spurious Emission Measurement

#### 3.5.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 KHz up to a frequency including its 10<sup>th</sup> harmonic.

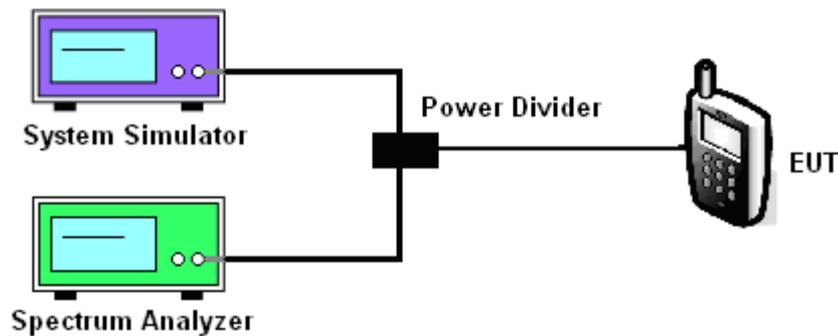
#### 3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.5.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

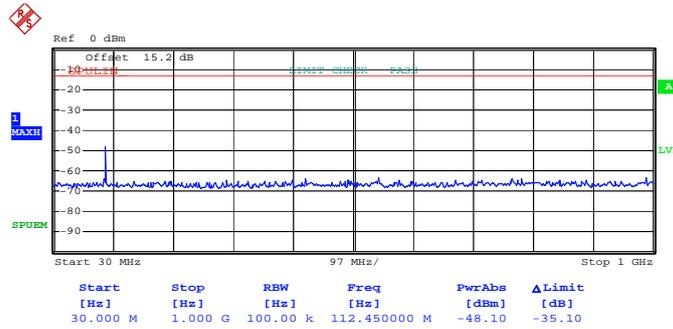
#### 3.5.4 Test Setup



### 3.5.5 Test Result (Plots) of Conducted Spurious Emission

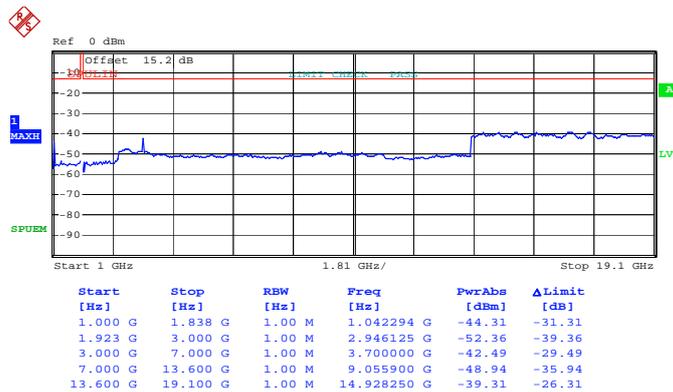
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
Frequency :	1850.7	Channel :	18607

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 20:49:16

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

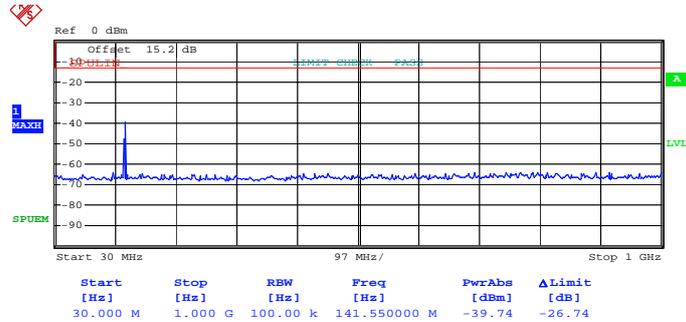


Date: 25.FEB.2013 20:50:20



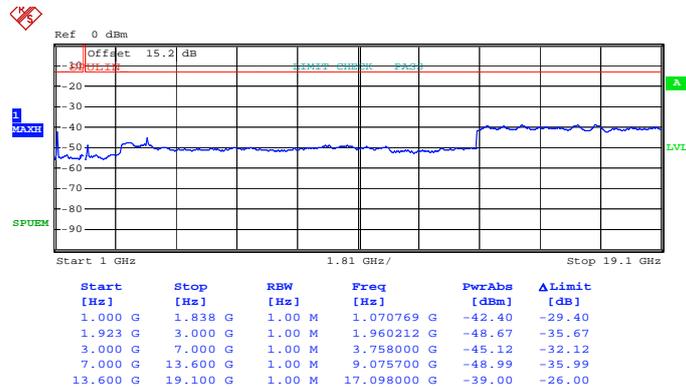
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 21:38:17

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

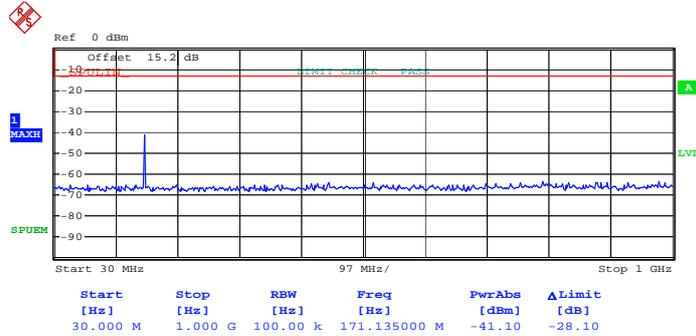


Date: 25.FEB.2013 21:33:56



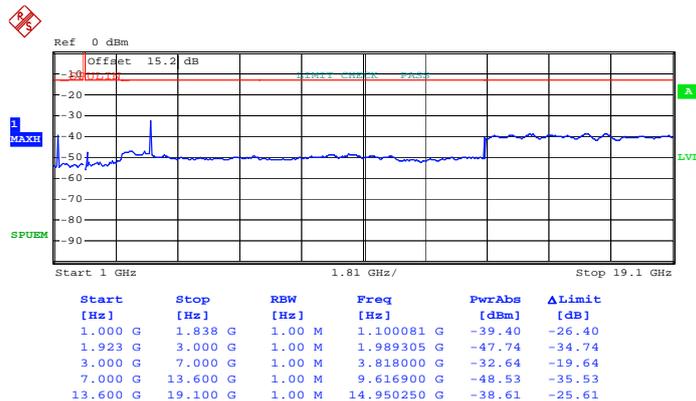
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	1.4MHz / QPSK
<b>Frequency :</b>	1909.3	<b>Channel :</b>	19193

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 25.FEB.2013 21:32:12

**Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)**

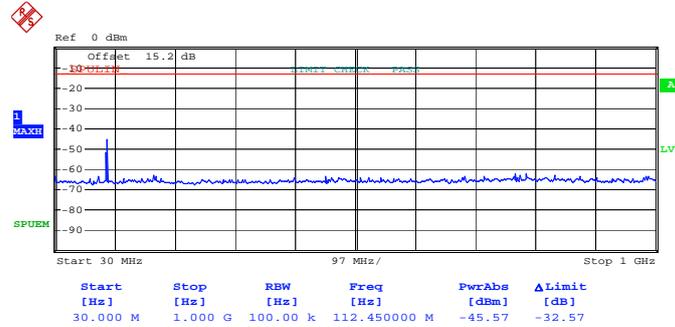


Date: 25.FEB.2013 21:29:43



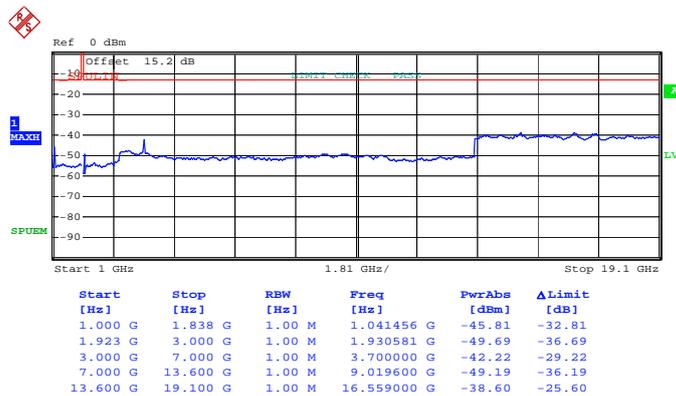
Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1850.7	Channel :	18607

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 20:48:31

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

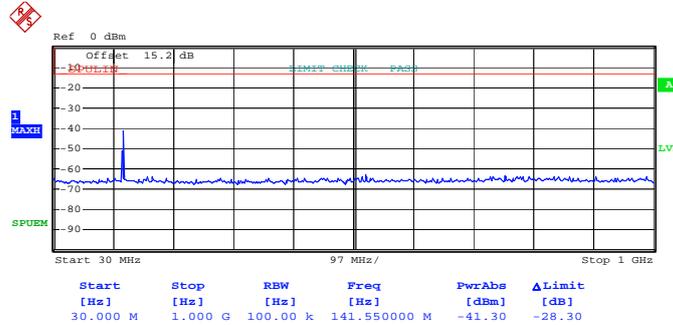


Date: 25.FEB.2013 20:50:44



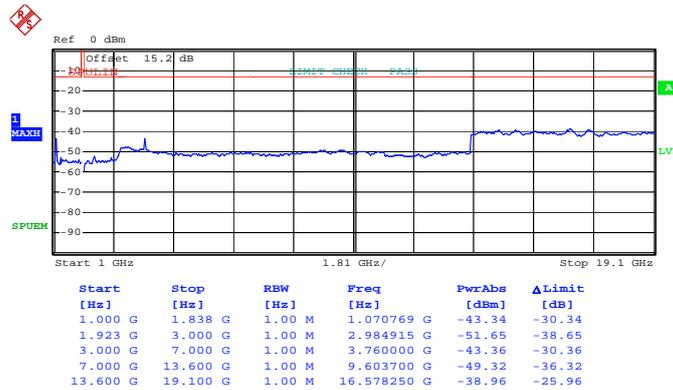
Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 21:37:51

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

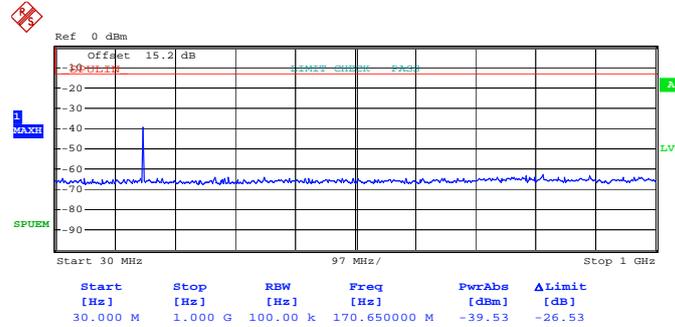


Date: 25.FEB.2013 21:34:30



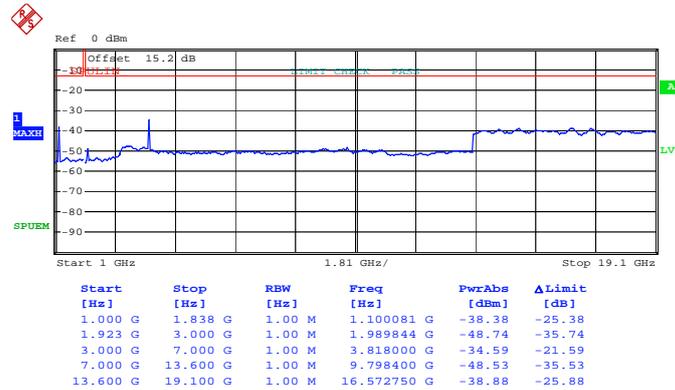
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	1.4MHz / 16QAM
<b>Frequency :</b>	1909.3	<b>Channel :</b>	19193

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 25.FEB.2013 21:31:37

**Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)**

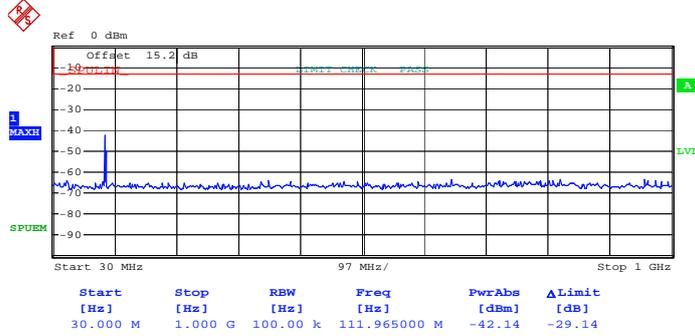


Date: 25.FEB.2013 21:30:40



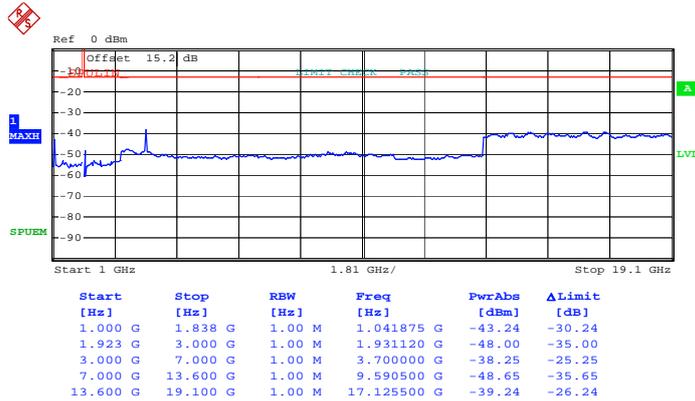
Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK
Frequency :	1851.5	Channel :	18615

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 21:49:02

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

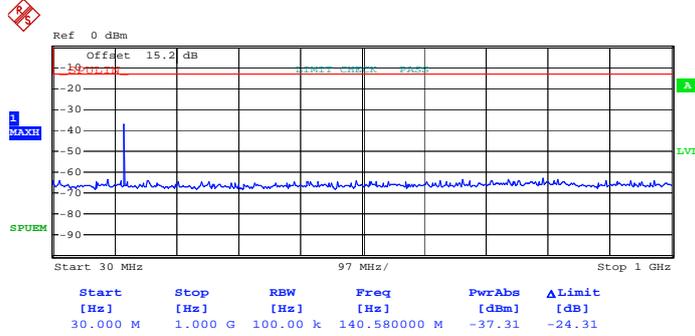


Date: 25.FEB.2013 21:52:32



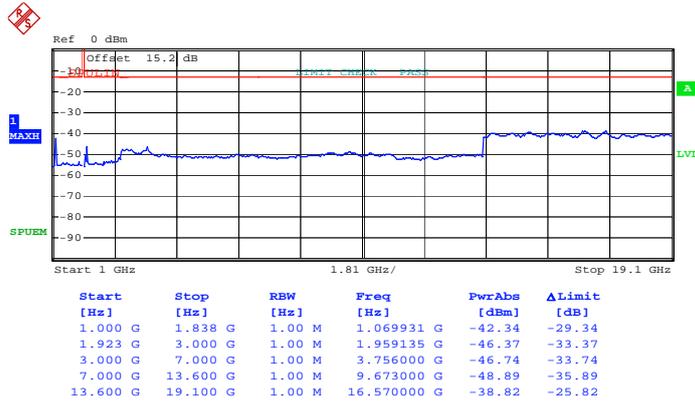
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	3MHz / QPSK
<b>Frequency :</b>	1880	<b>Channel :</b>	18900

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 25.FEB.2013 22:00:18

**Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)**

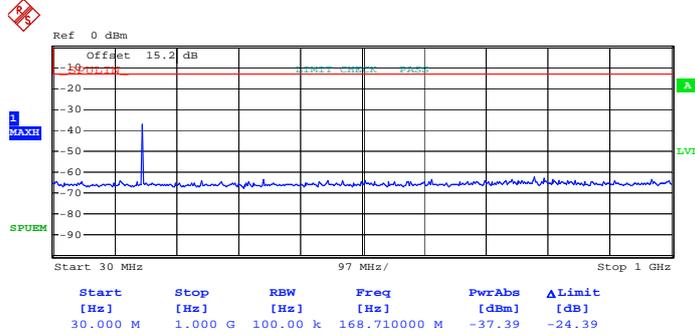


Date: 25.FEB.2013 21:56:17



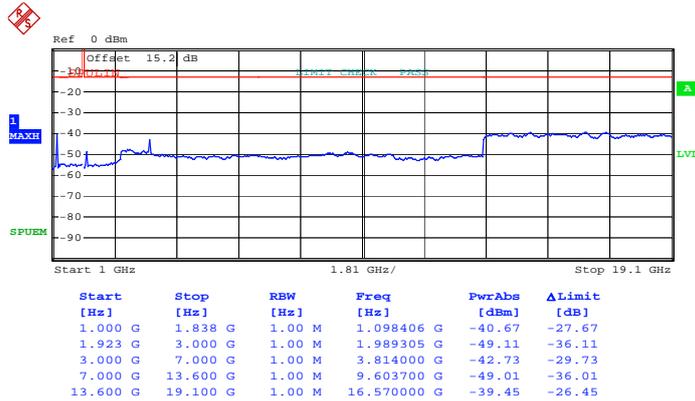
Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK
Frequency :	1908.5	Channel :	19185

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:05:12

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

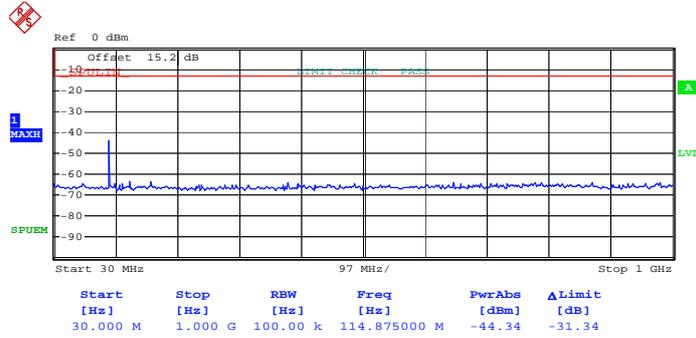


Date: 25.FEB.2013 22:02:40



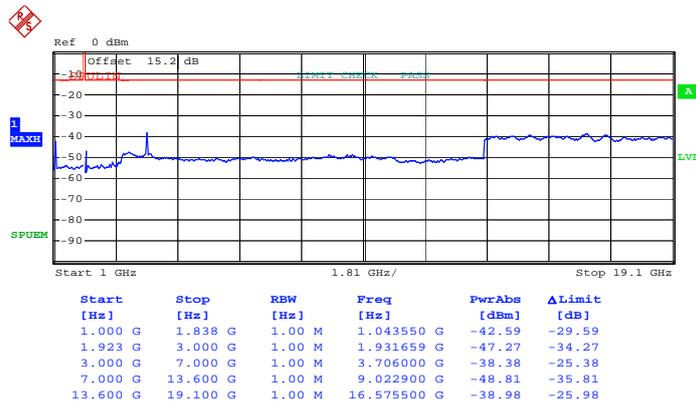
Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM
Frequency :	1851.5	Channel :	18615

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 14)



Date: 25.FEB.2013 21:50:43

Conducted Emission Plot (1GHz ~ 19.1GHz) for  
16-QAM (RB Size 1, RB Offset 14)

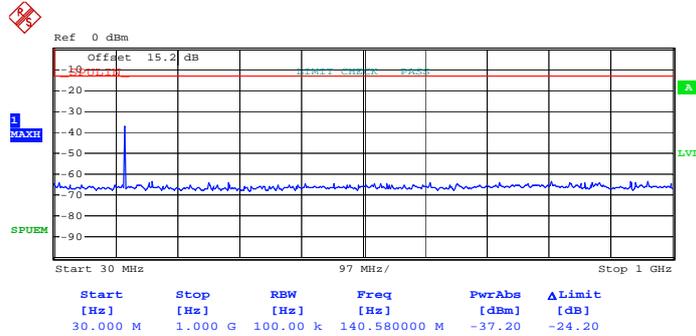


Date: 25.FEB.2013 21:51:34



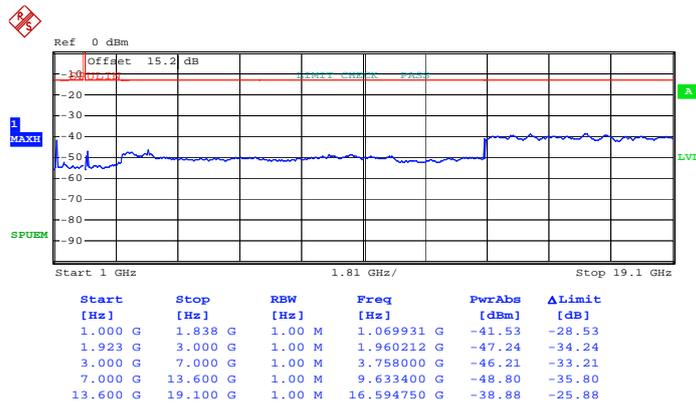
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	3MHz / 16QAM
<b>Frequency :</b>	1880	<b>Channel :</b>	18900

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 25.FEB.2013 21:58:19

**Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)**

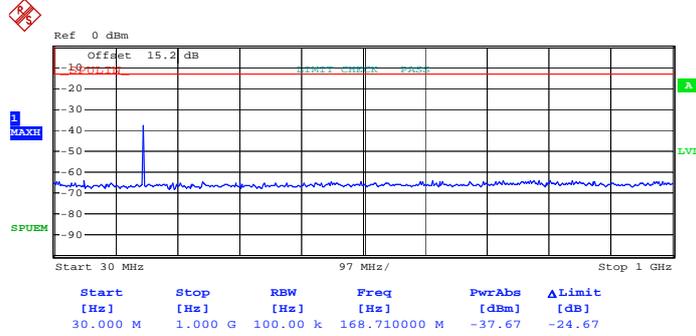


Date: 25.FEB.2013 21:57:17



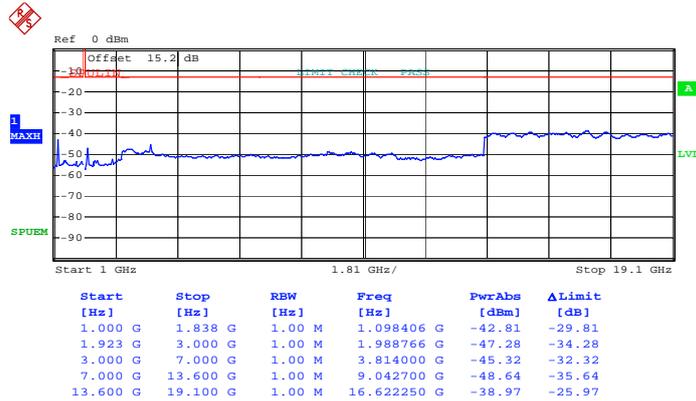
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	3MHz / 16QAM
<b>Frequency :</b>	1908.5	<b>Channel :</b>	19185

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 25.FEB.2013 22:01:38

**Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)**

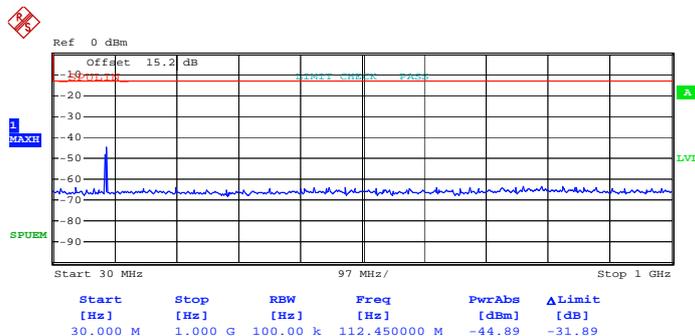


Date: 25.FEB.2013 22:02:12



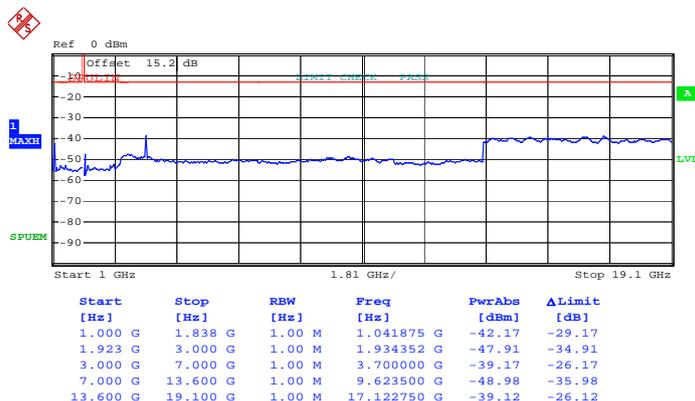
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
Frequency :	1852.5	Channel :	18625

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:09:02

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

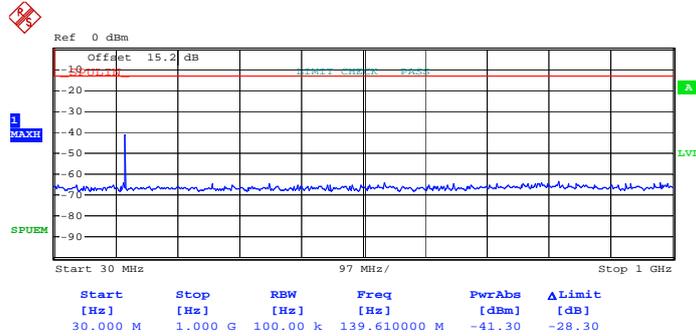


Date: 25.FEB.2013 22:09:42



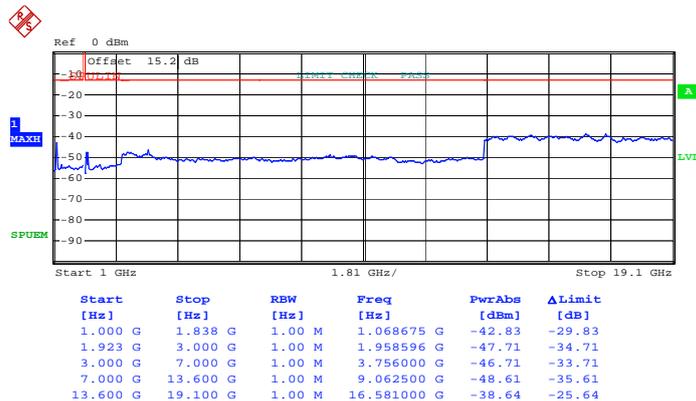
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:13:44

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

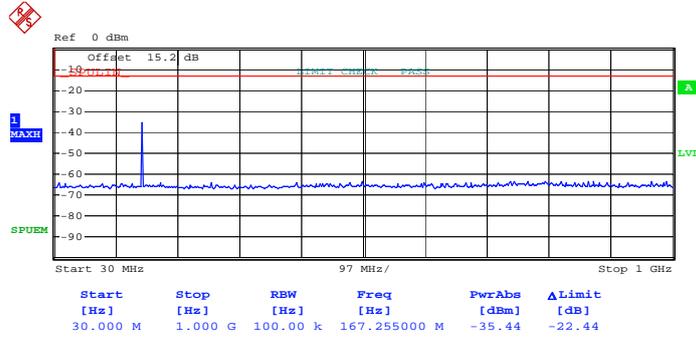


Date: 25.FEB.2013 22:14:20



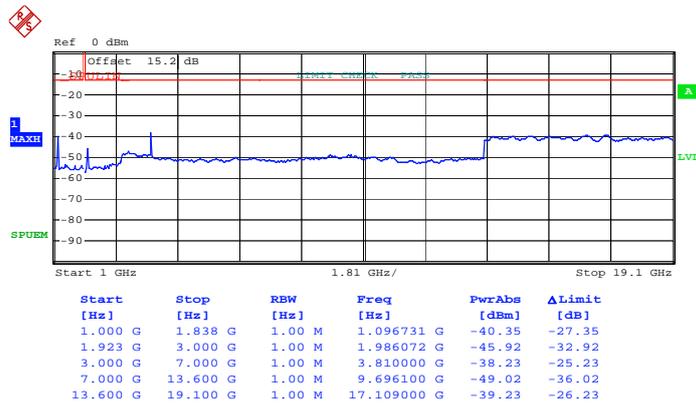
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
Frequency :	1907.5	Channel :	19175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:18:43

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

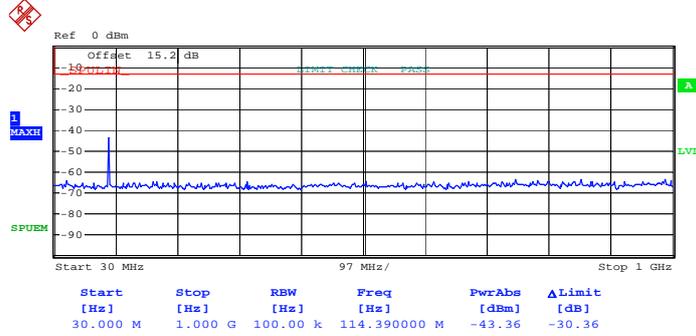


Date: 25.FEB.2013 22:17:20



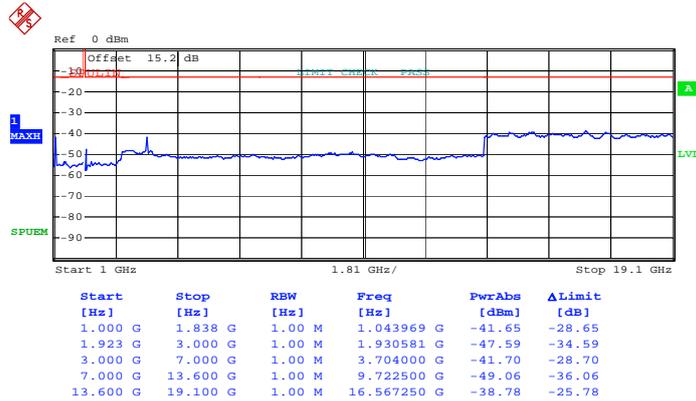
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	5MHz / 16QAM
<b>Frequency :</b>	1852.5	<b>Channel :</b>	18625

**Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 12)**



Date: 25.FEB.2013 22:11:07

**Conducted Emission Plot (1GHz ~ 19.1GHz) for  
16-QAM (RB Size 1, RB Offset 12)**

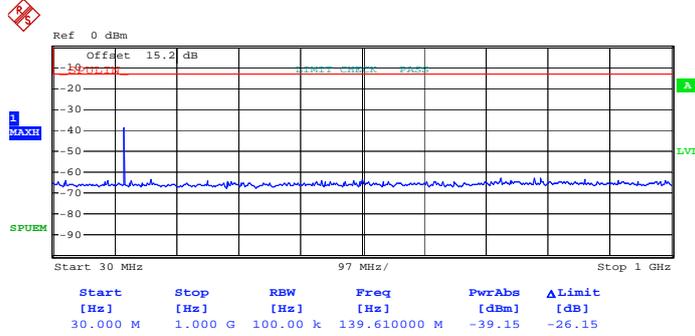


Date: 25.FEB.2013 22:10:24



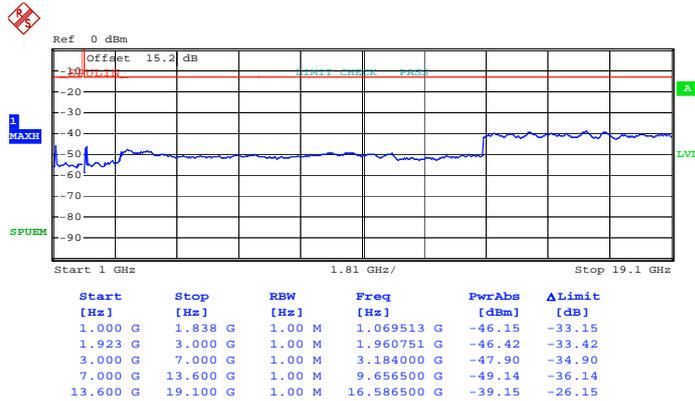
Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:13:06

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

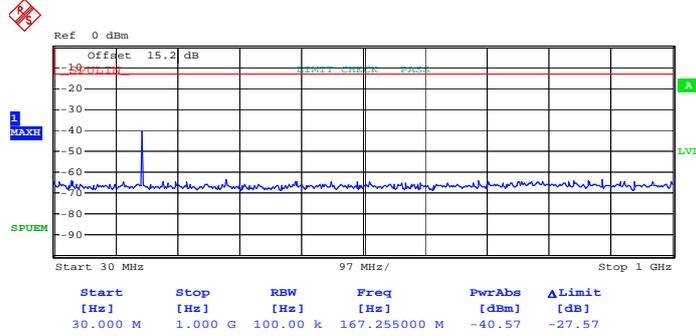


Date: 25.FEB.2013 22:14:55



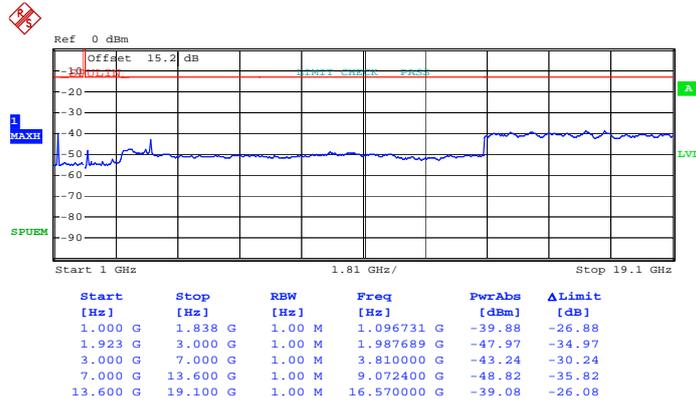
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	5MHz / 16QAM
<b>Frequency :</b>	1907.5	<b>Channel :</b>	19175

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 25.FEB.2013 22:19:25

**Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)**

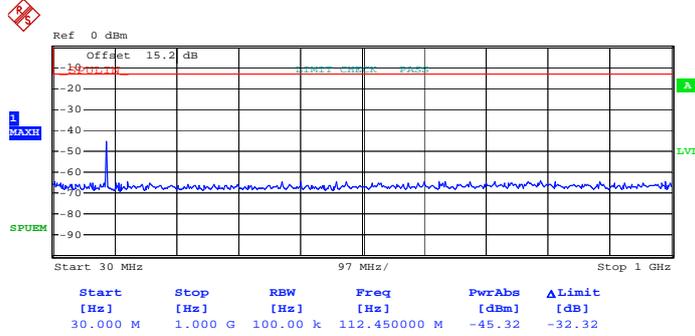


Date: 25.FEB.2013 22:16:37



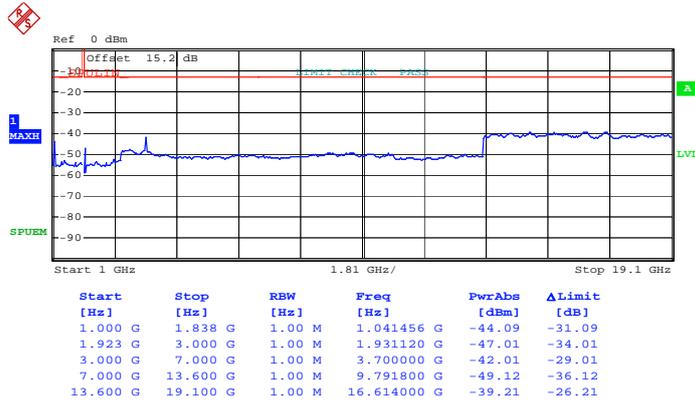
Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
Frequency :	1855	Channel :	18650

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:23:38

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

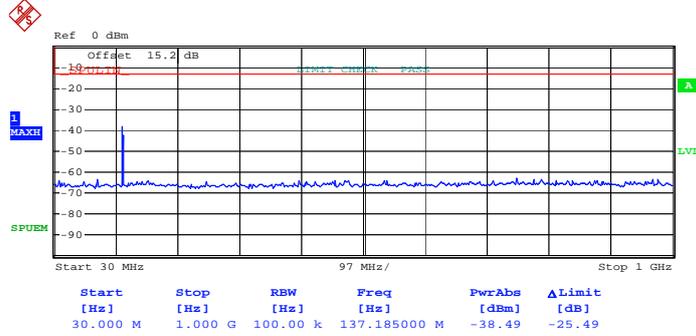


Date: 25.FEB.2013 22:24:42



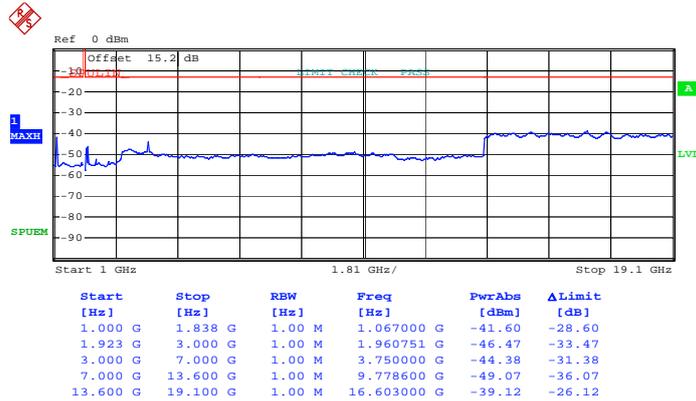
Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:29:28

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

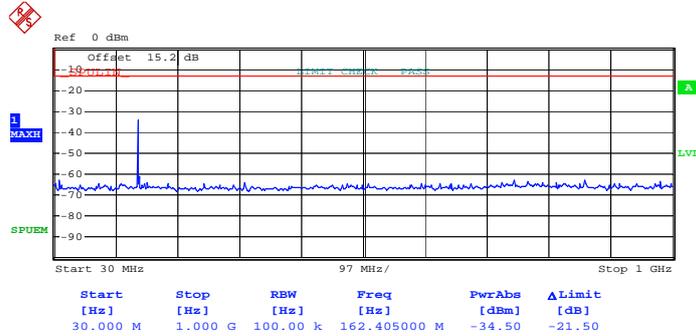


Date: 25.FEB.2013 22:28:42



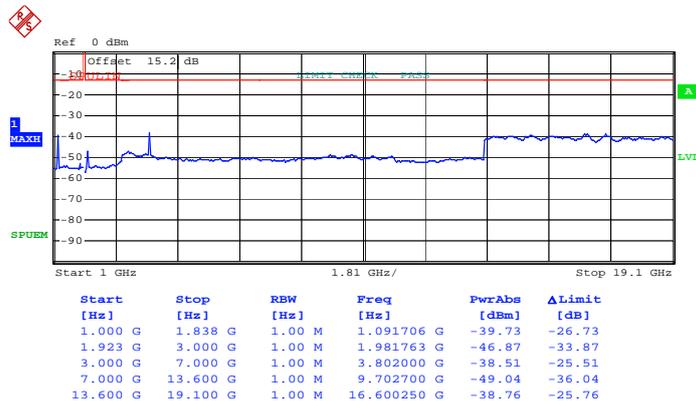
Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
Frequency :	1905	Channel :	19150

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:31:47

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

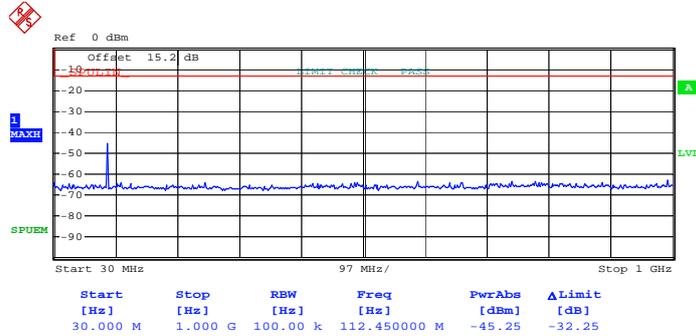


Date: 25.FEB.2013 22:32:23



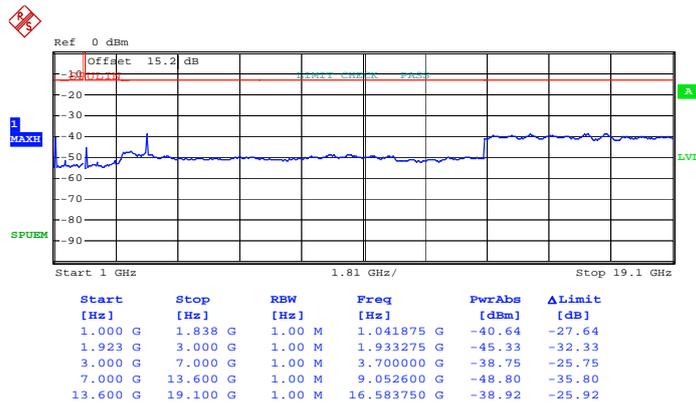
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	10MHz / 16QAM
<b>Frequency :</b>	1855	<b>Channel :</b>	18650

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 25.FEB.2013 22:22:53

**Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)**

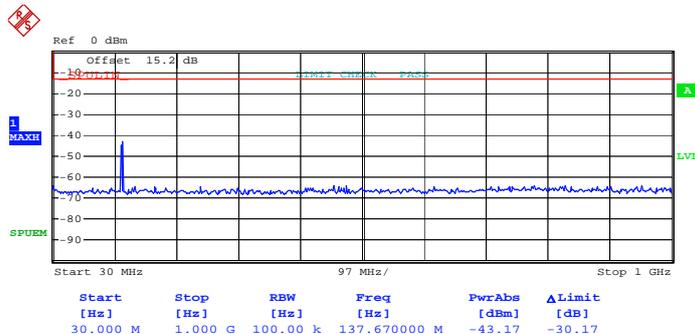


Date: 25.FEB.2013 22:26:31



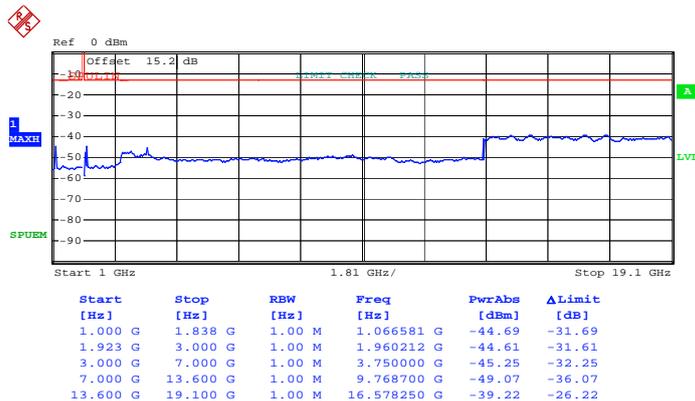
Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:30:19

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

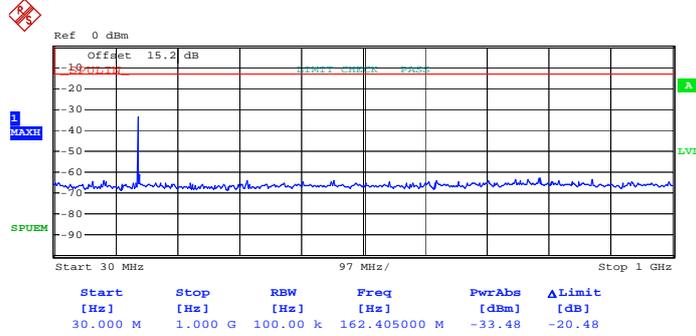


Date: 25.FEB.2013 22:28:12



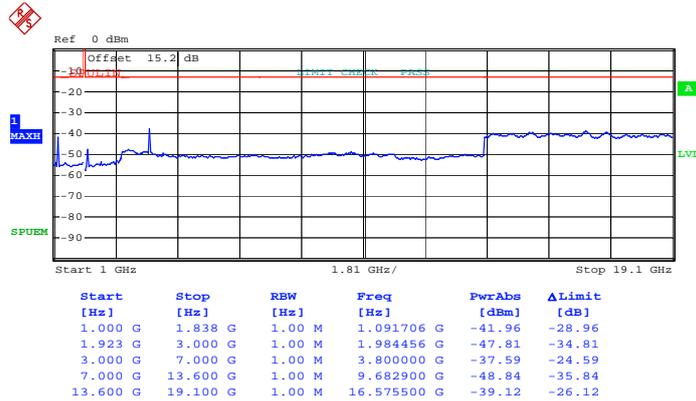
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	10MHz / 16QAM
<b>Frequency :</b>	1905	<b>Channel :</b>	19150

**Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 0)**



Date: 25.FEB.2013 22:31:26

**Conducted Emission Plot (1GHz ~ 19.1GHz) for  
16-QAM (RB Size 1, RB Offset 0)**

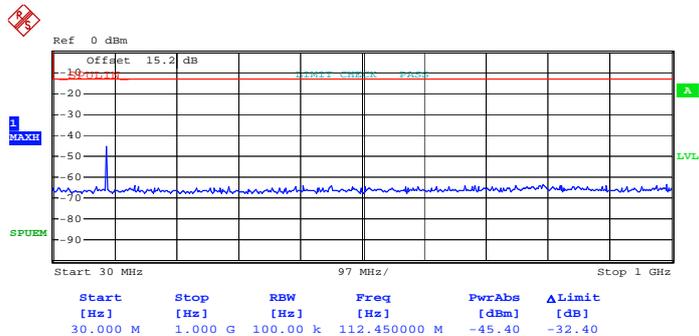


Date: 25.FEB.2013 22:32:48



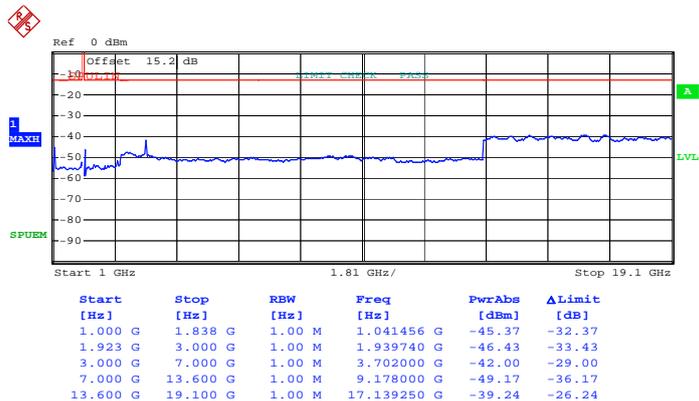
Band :	LTE Band 2	BW / Mod. :	15MHz / QPSK
Frequency :	1857.5	Channel :	18675

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:49:45

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

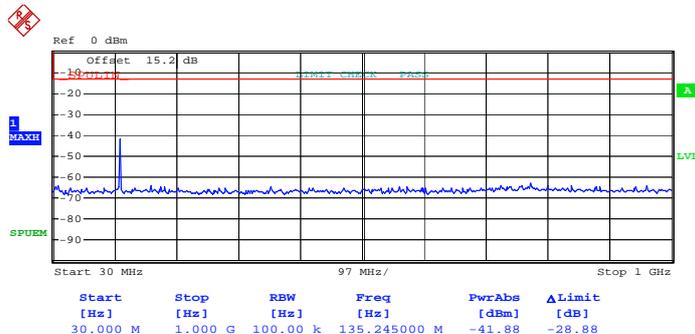


Date: 25.FEB.2013 22:49:07



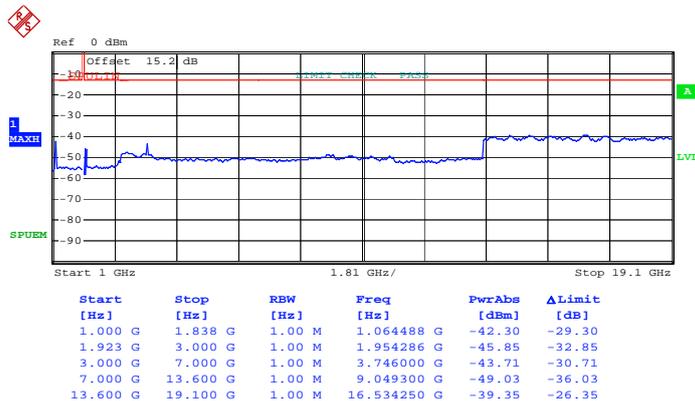
Band :	LTE Band 2	BW / Mod. :	15MHz / QPSK
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:51:39

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

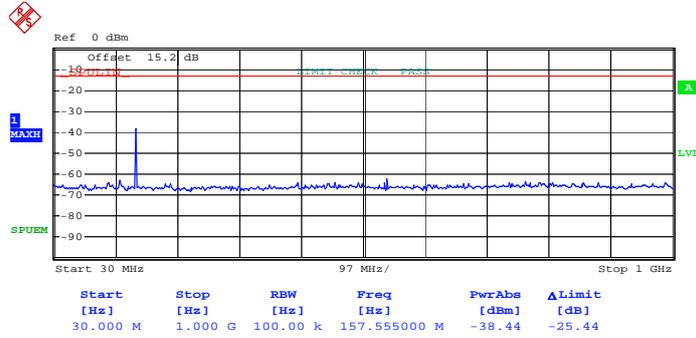


Date: 25.FEB.2013 22:52:09



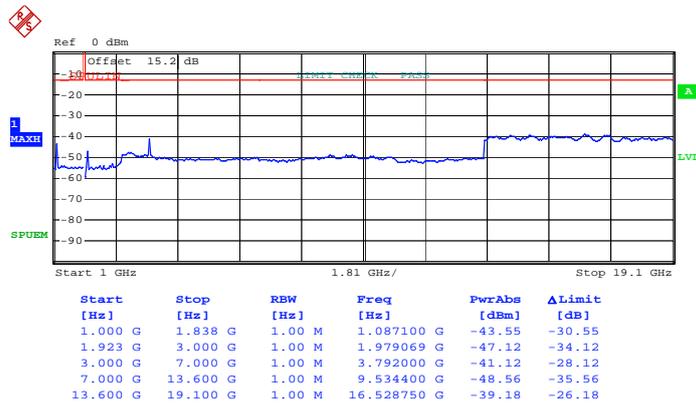
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	15MHz / QPSK
<b>Frequency :</b>	1902.5	<b>Channel :</b>	19125

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 25.FEB.2013 23:00:10

**Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)**

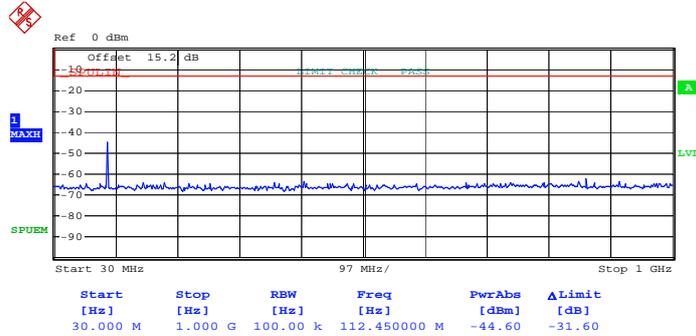


Date: 25.FEB.2013 23:05:16



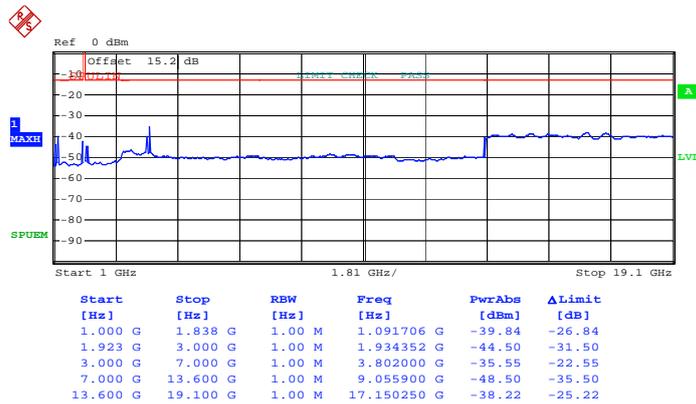
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
Frequency :	1857.5	Channel :	18675

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:50:14

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

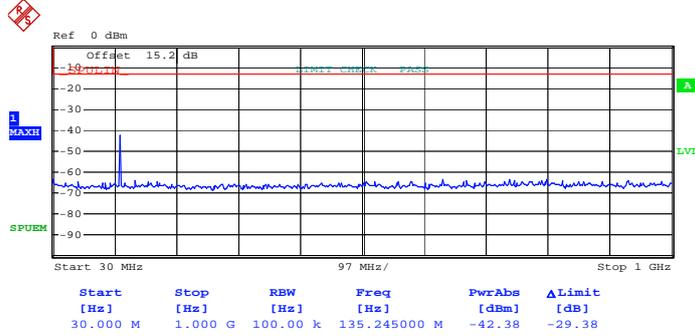


Date: 25.FEB.2013 22:48:42



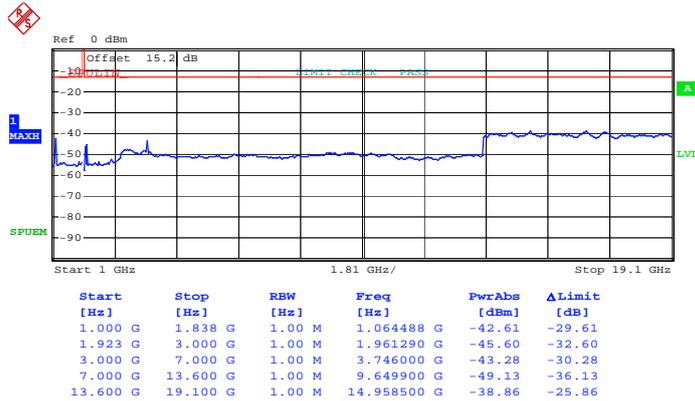
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 22:51:02

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

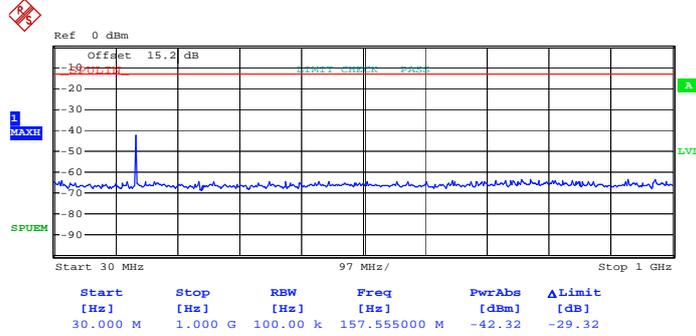


Date: 25.FEB.2013 22:52:39



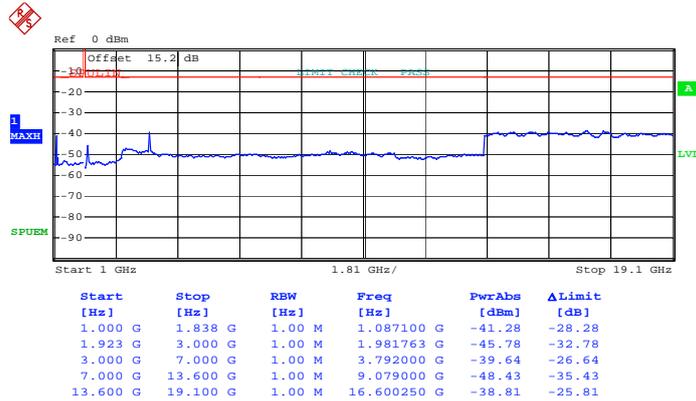
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
Frequency :	1902.5	Channel :	19125

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 23:00:49

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

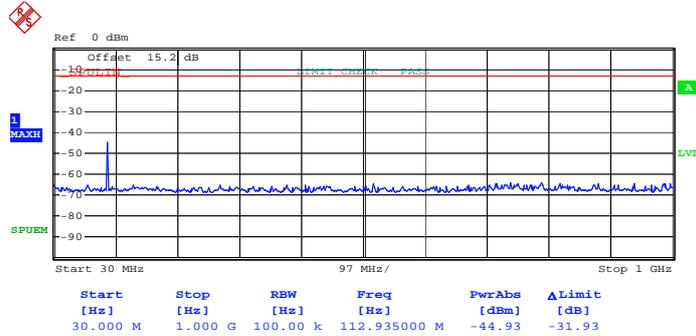


Date: 25.FEB.2013 23:04:39



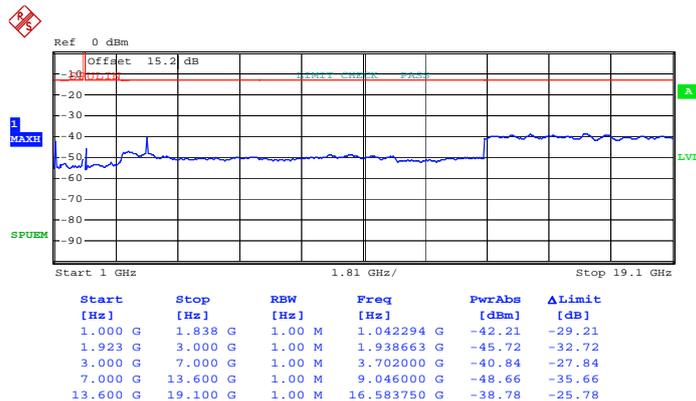
Band :	LTE Band 2	BW / Mod. :	20MHz / QPSK
Frequency :	1860	Channel :	18700

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 23:11:10

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

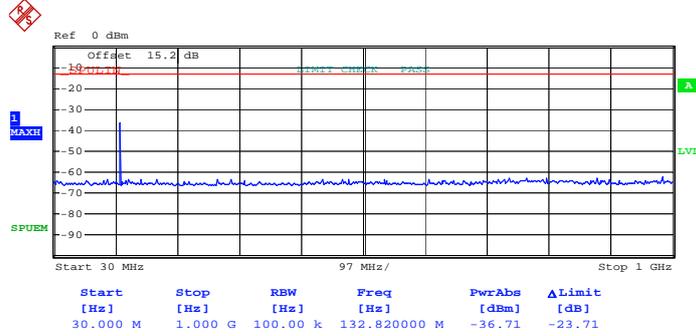


Date: 25.FEB.2013 23:09:50



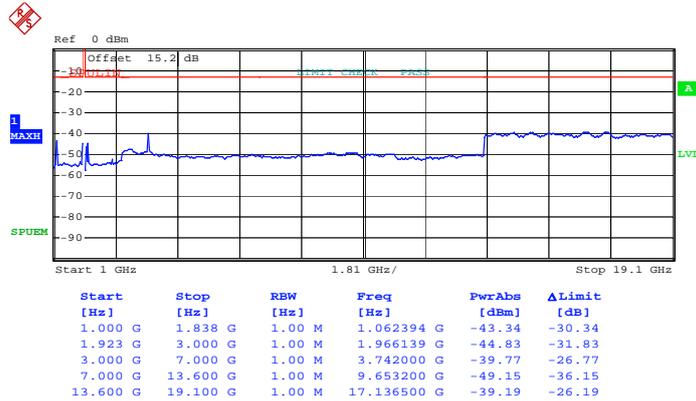
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	20MHz / QPSK
<b>Frequency :</b>	1880	<b>Channel :</b>	18900

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 25.FEB.2013 23:13:17

**Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)**

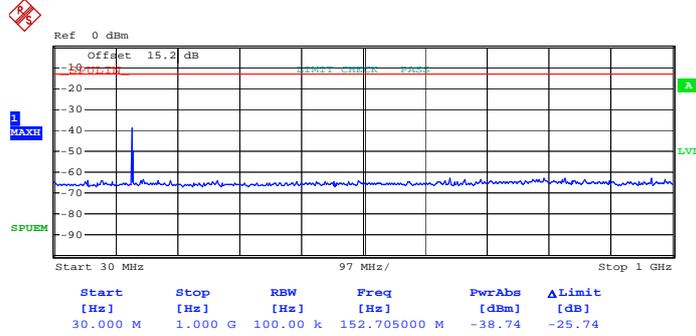


Date: 25.FEB.2013 23:15:22



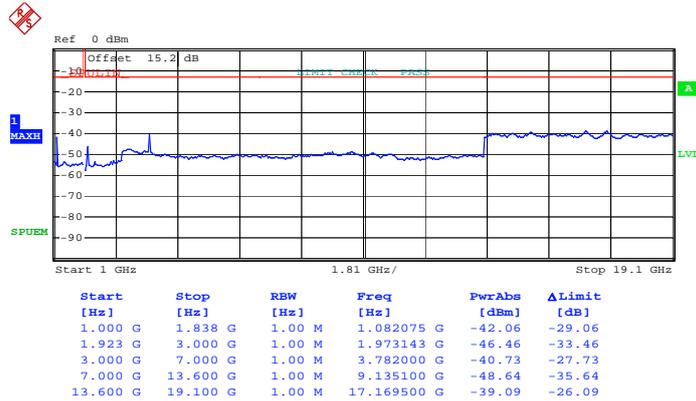
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	20MHz / QPSK
<b>Frequency :</b>	1900	<b>Channel :</b>	19100

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 25.FEB.2013 23:21:54

**Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)**

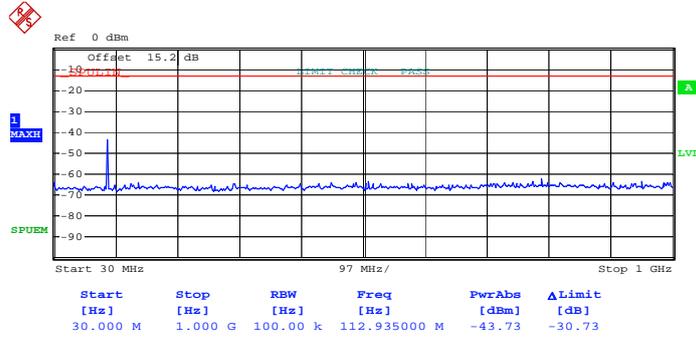


Date: 25.FEB.2013 23:18:15



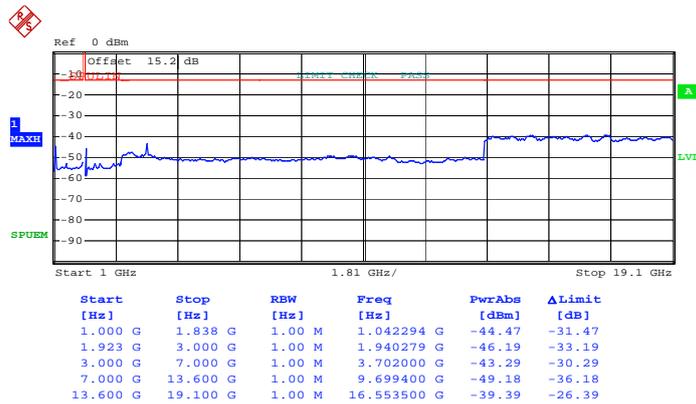
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	20MHz / 16QAM
<b>Frequency :</b>	1860	<b>Channel :</b>	18700

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 25.FEB.2013 23:10:39

**Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)**

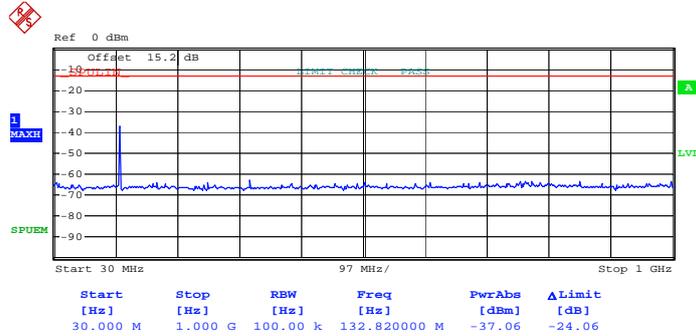


Date: 25.FEB.2013 23:10:14



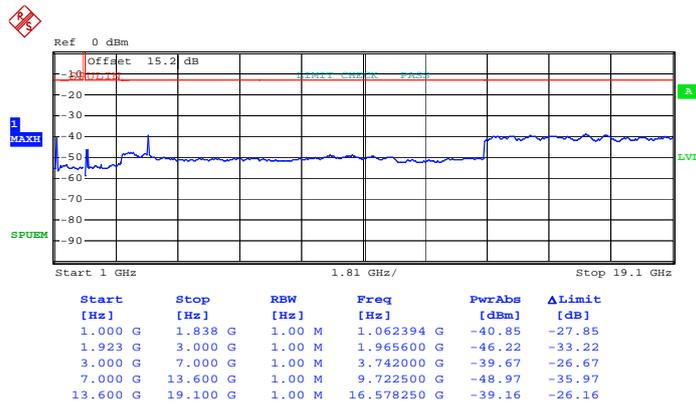
Band :	LTE Band 2	BW / Mod. :	20MHz / 16QAM
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 23:14:20

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

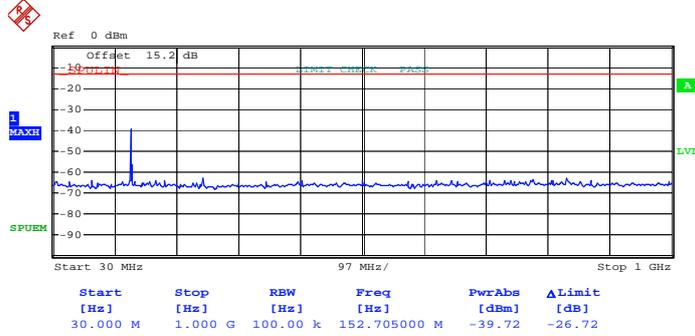


Date: 25.FEB.2013 23:14:56



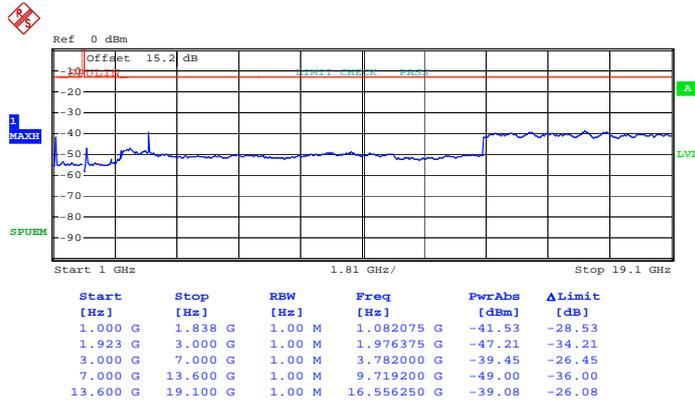
Band :	LTE Band 2	BW / Mod. :	20MHz / 16QAM
Frequency :	1900	Channel :	19100

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 25.FEB.2013 23:20:02

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

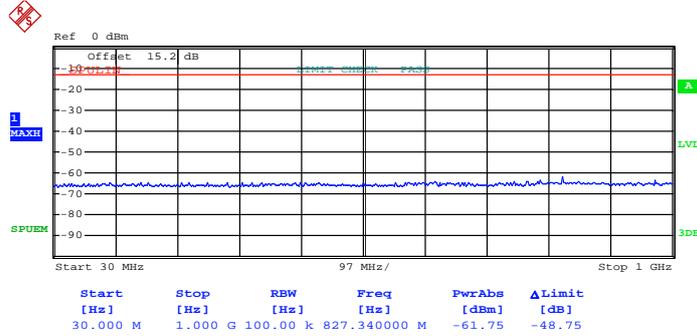


Date: 25.FEB.2013 23:19:04



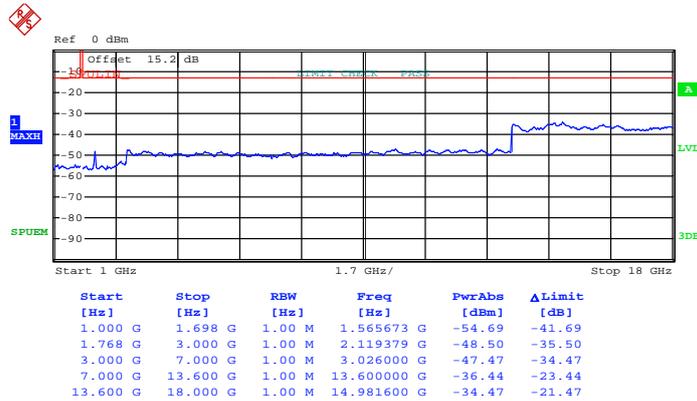
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / QPSK
<b>Frequency :</b>	1710.7	<b>Channel :</b>	19957

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 04:18:38

**Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)**

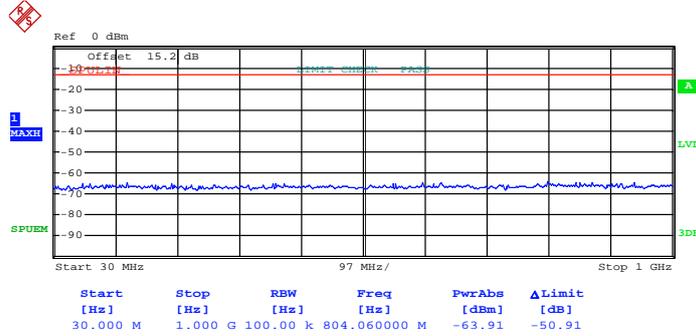


Date: 1.MAR.2013 04:20:40



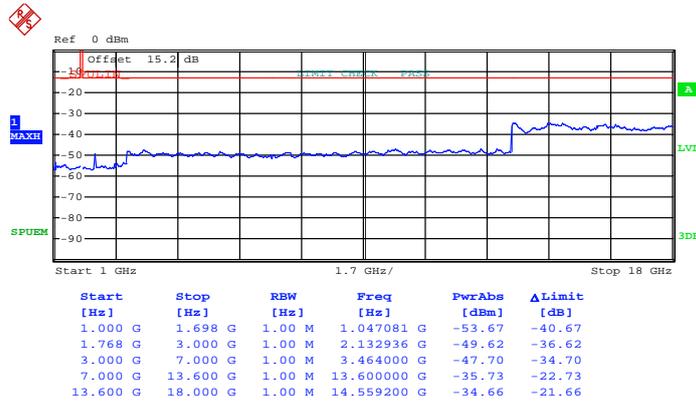
Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 04:23:23

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

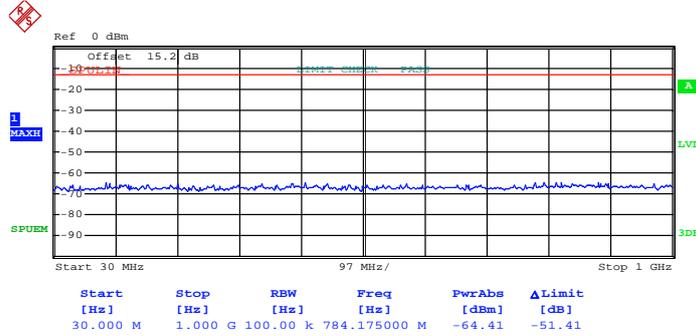


Date: 1.MAR.2013 04:21:43



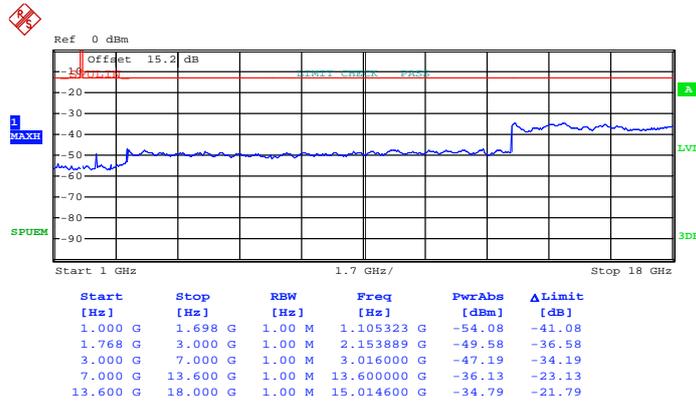
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / QPSK
<b>Frequency :</b>	1754.3	<b>Channel :</b>	20393

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 04:24:08

**Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)**

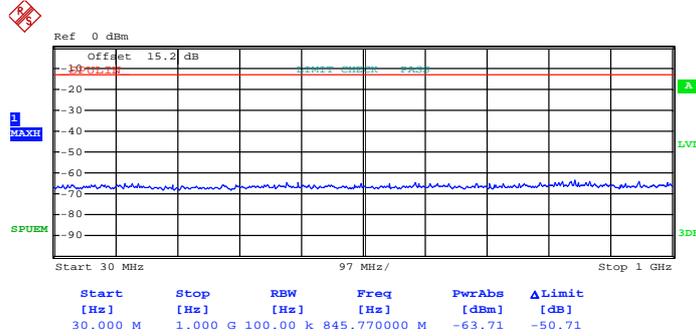


Date: 1.MAR.2013 04:25:19



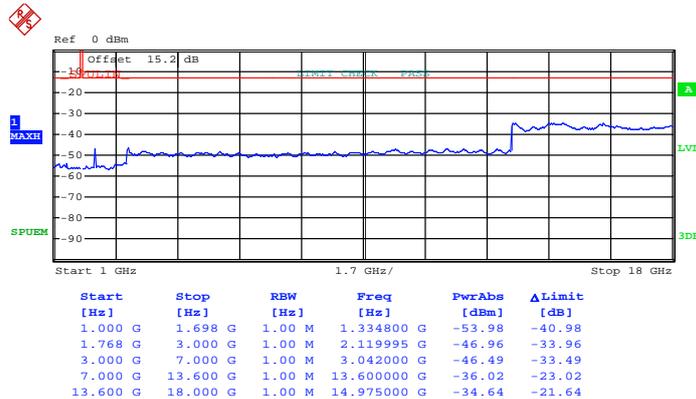
Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1710.7	Channel :	19957

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 04:19:05

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

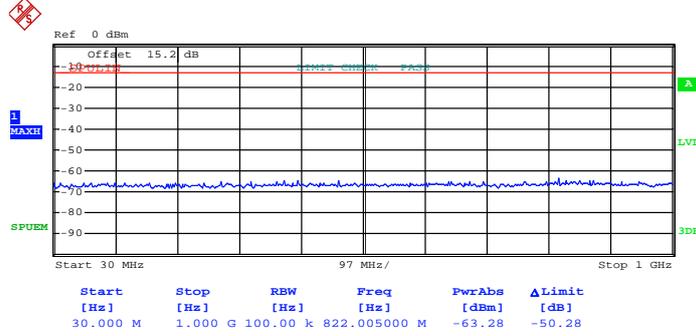


Date: 1.MAR.2013 04:20:19



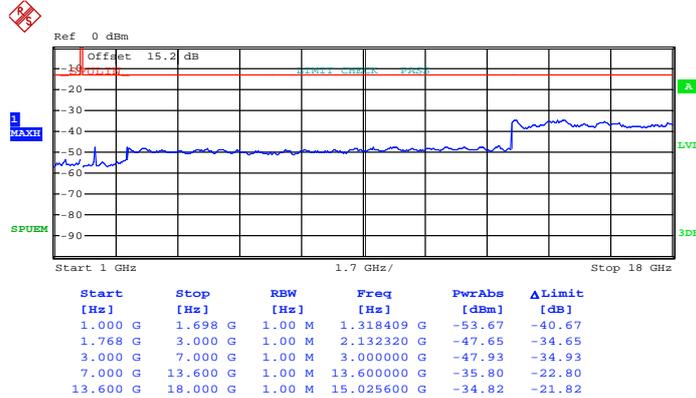
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / 16QAM
<b>Frequency :</b>	1732.5	<b>Channel :</b>	20175

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 04:22:53

**Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)**

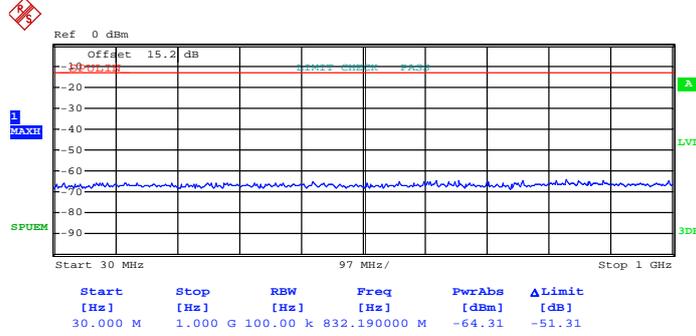


Date: 1.MAR.2013 04:22:06



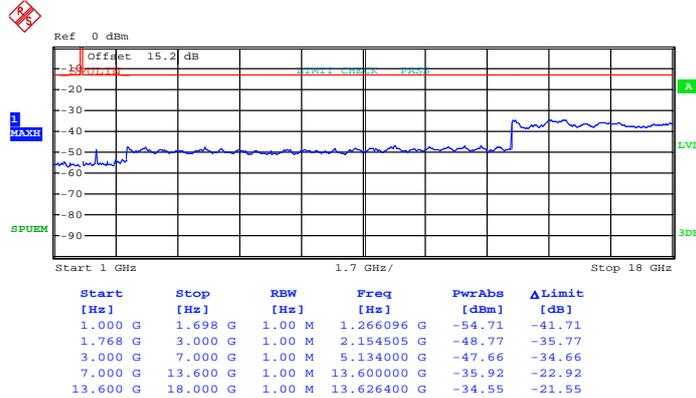
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / 16QAM
<b>Frequency :</b>	1754.3	<b>Channel :</b>	20393

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 04:24:29

**Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)**

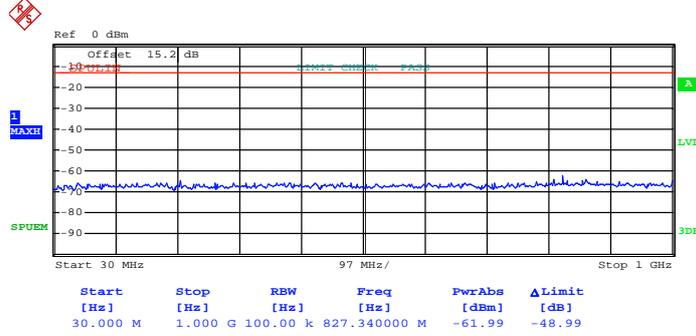


Date: 1.MAR.2013 04:24:57



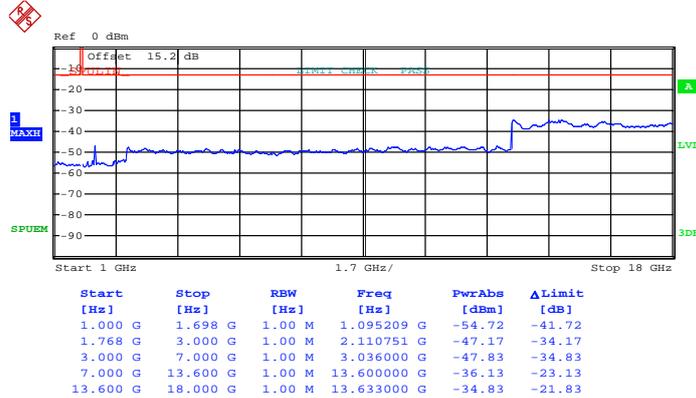
Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
Frequency :	1711.5	Channel :	19965

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 04:31:30

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

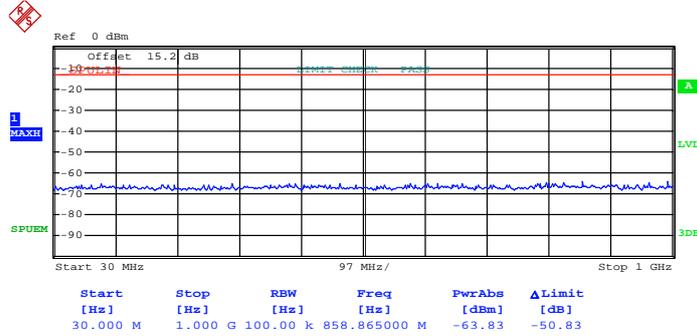


Date: 1.MAR.2013 04:30:01



Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 04:32:18

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

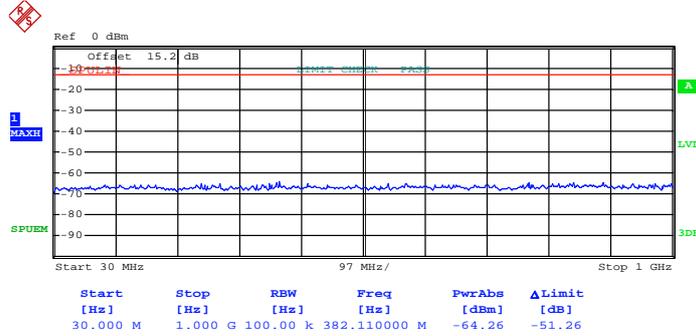


Date: 1.MAR.2013 04:33:28



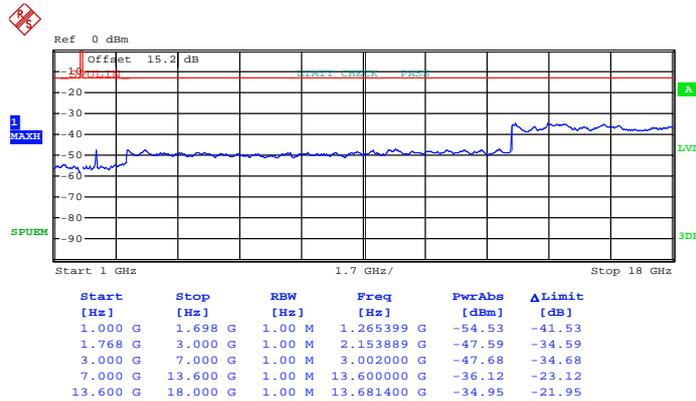
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	3MHz / QPSK
<b>Frequency :</b>	1753.5	<b>Channel :</b>	20385

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 04:35:35

**Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)**

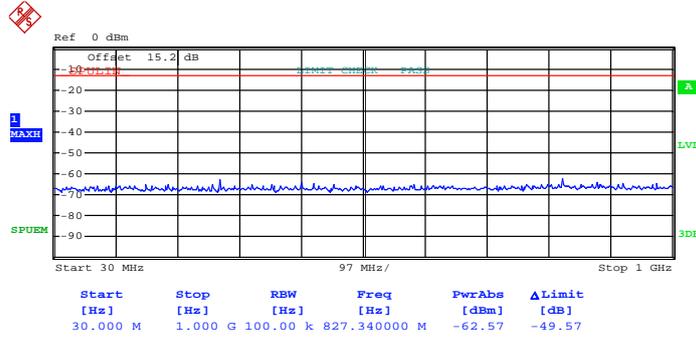


Date: 1.MAR.2013 04:34:12



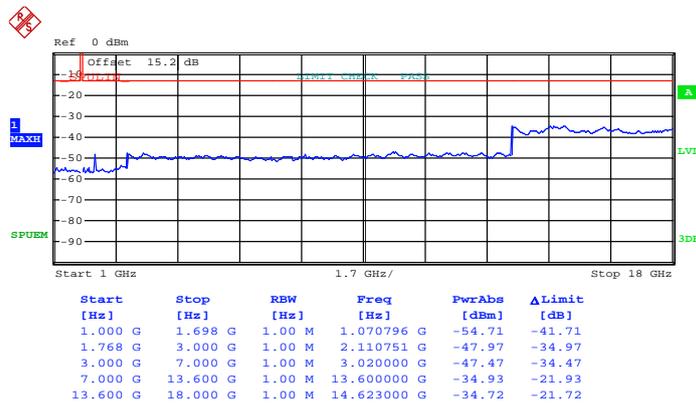
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	3MHz / 16QAM
<b>Frequency :</b>	1711.5	<b>Channel :</b>	19965

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 04:31:01

**Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)**

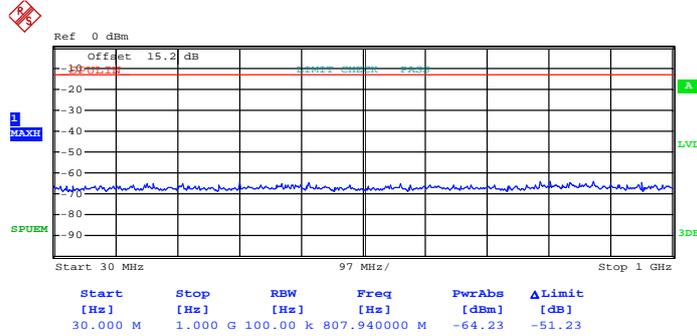


Date: 1.MAR.2013 04:30:24



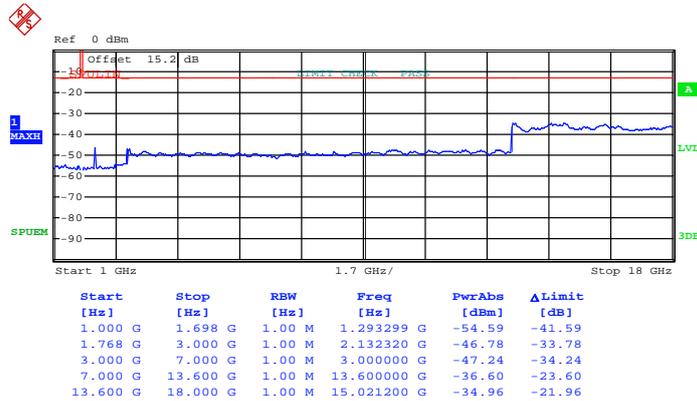
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 04:32:37

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 0)

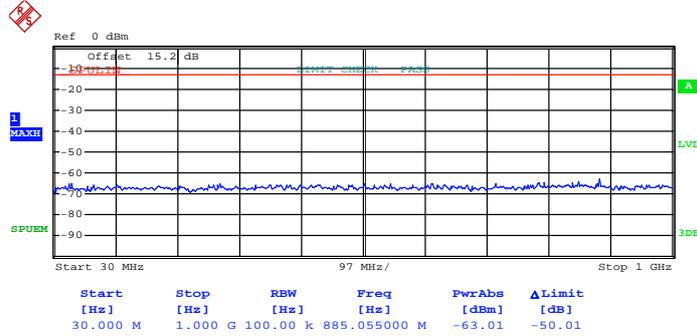


Date: 1.MAR.2013 04:33:11



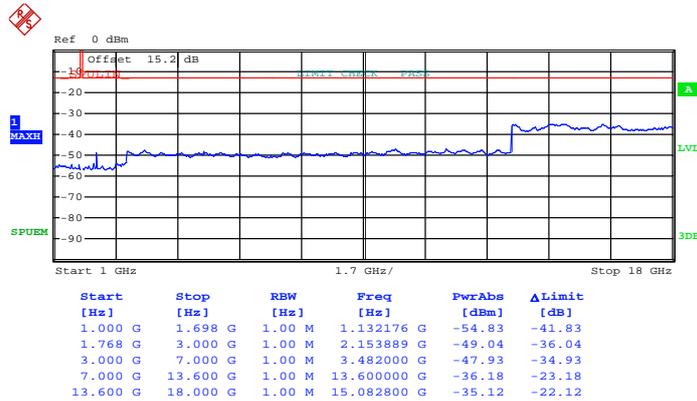
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
Frequency :	1753.5	Channel :	20385

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 04:35:15

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

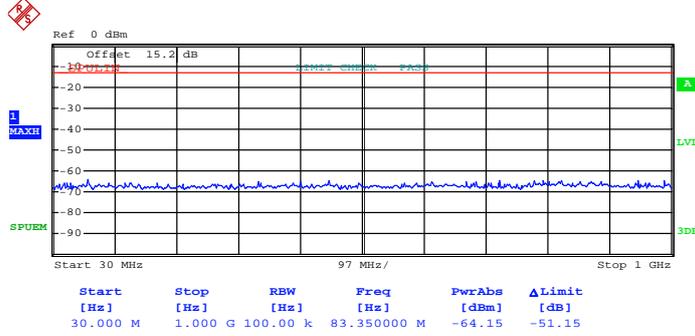


Date: 1.MAR.2013 04:34:31



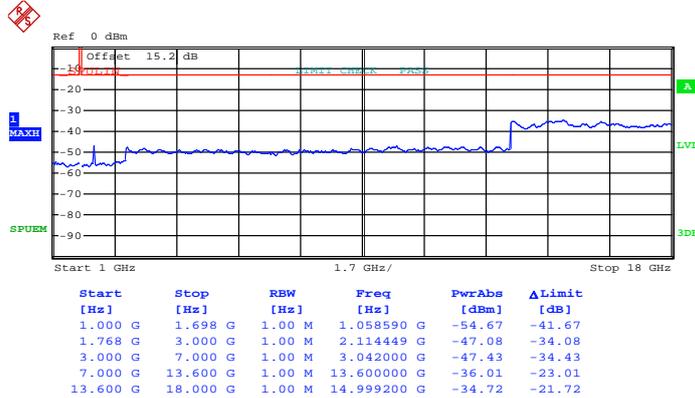
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
Frequency :	1712.5	Channel :	19975

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 04:46:08

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

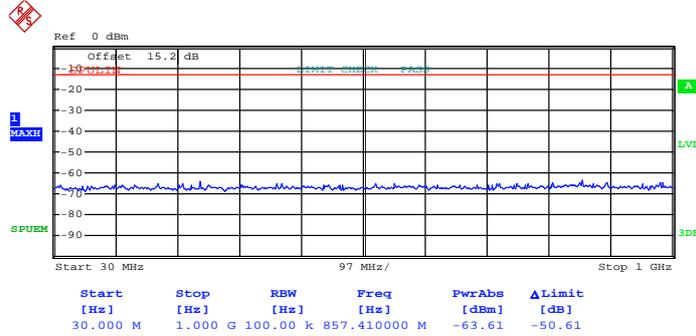


Date: 1.MAR.2013 04:46:45



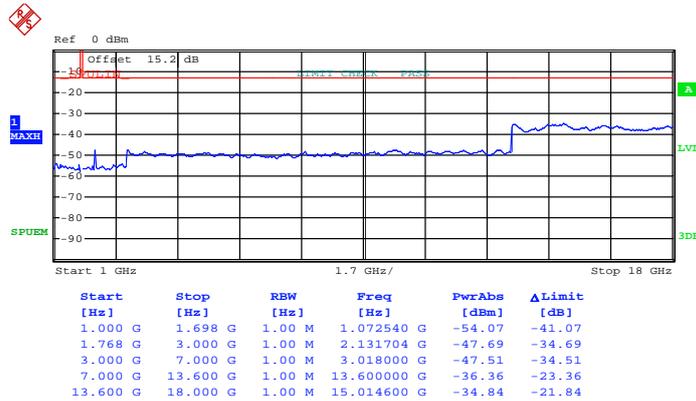
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 04:48:45

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

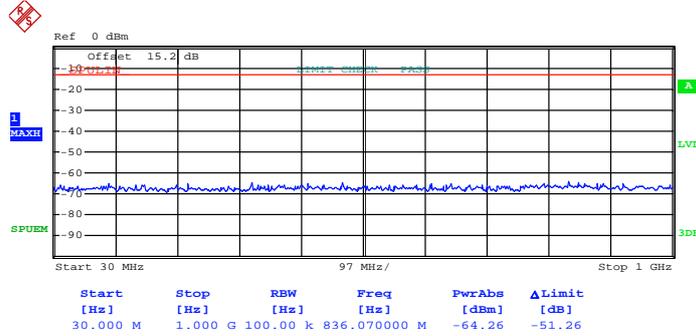


Date: 1.MAR.2013 04:48:14



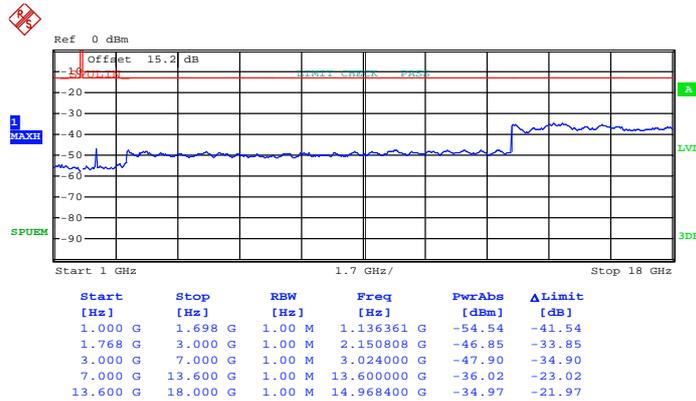
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
Frequency :	1752.5	Channel :	20375

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 04:50:32

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

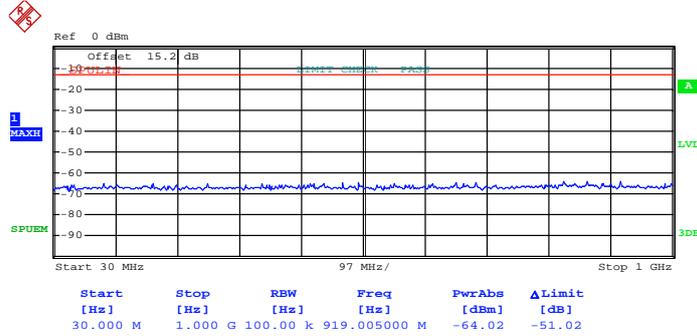


Date: 1.MAR.2013 04:51:02



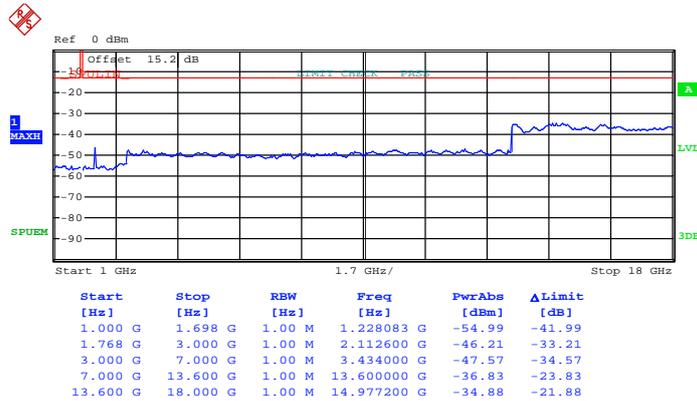
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
Frequency :	1712.5	Channel :	19975

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 04:45:52

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 0)

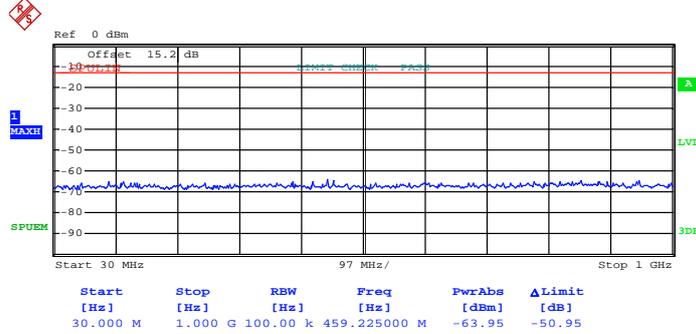


Date: 1.MAR.2013 04:47:12



<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	5MHz / 16QAM
<b>Frequency :</b>	1732.5	<b>Channel :</b>	20175

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 04:49:07

**Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)**

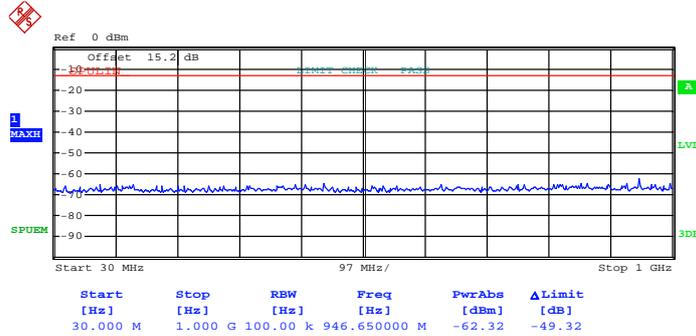


Date: 1.MAR.2013 04:47:59



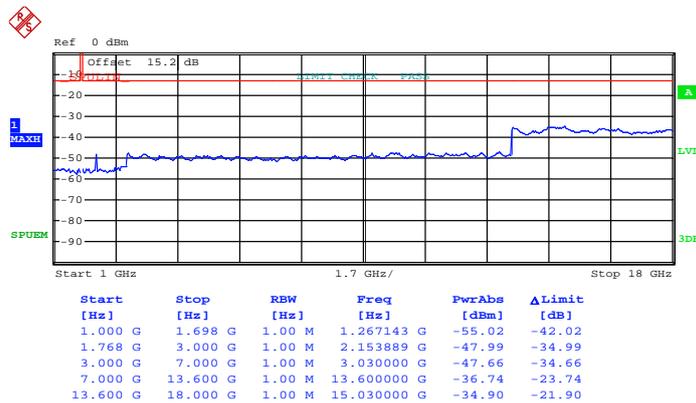
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	5MHz / 16QAM
<b>Frequency :</b>	1752.5	<b>Channel :</b>	20375

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 04:50:12

**Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)**

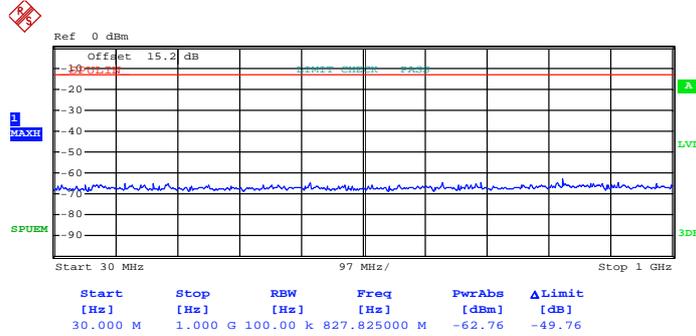


Date: 1.MAR.2013 04:51:24



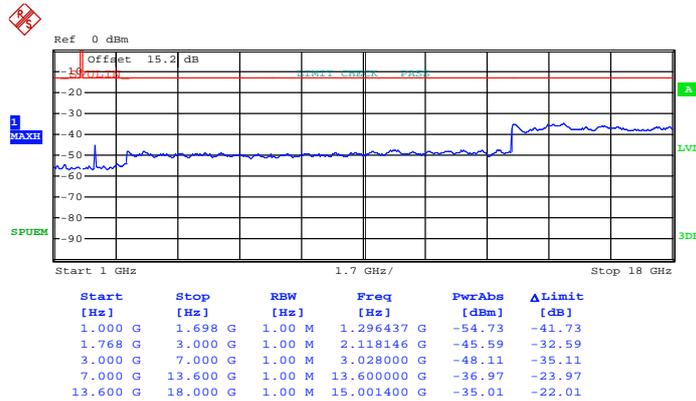
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	10MHz / QPSK
<b>Frequency :</b>	1715	<b>Channel :</b>	20000

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 04:56:44

**Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)**

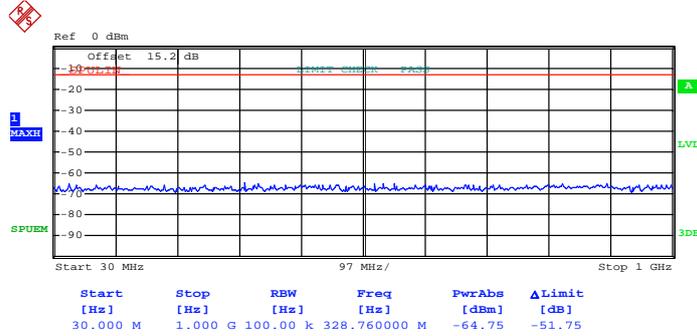


Date: 1.MAR.2013 04:56:17



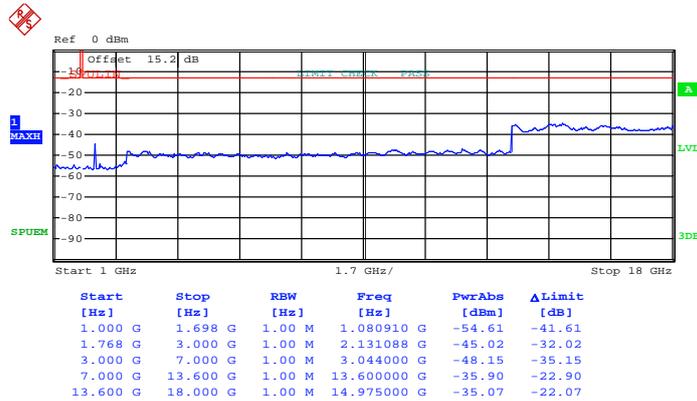
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 04:58:01

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

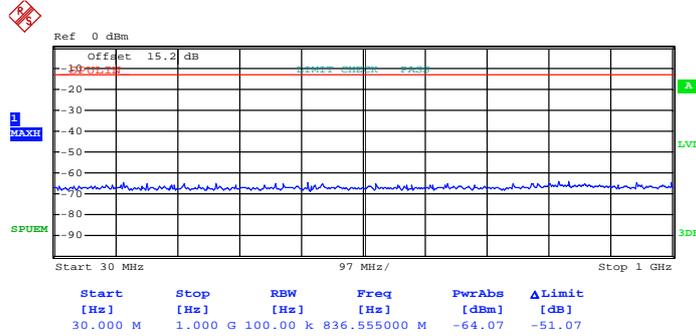


Date: 1.MAR.2013 04:58:27



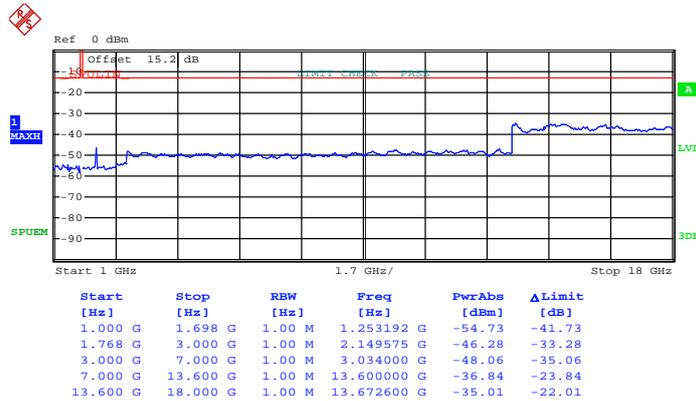
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
Frequency :	1750	Channel :	20350

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 05:00:57

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

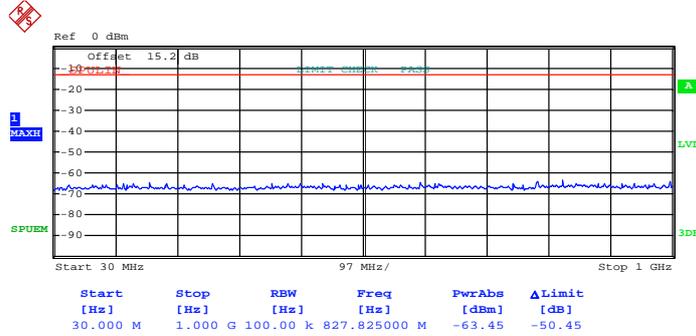


Date: 1.MAR.2013 04:59:53



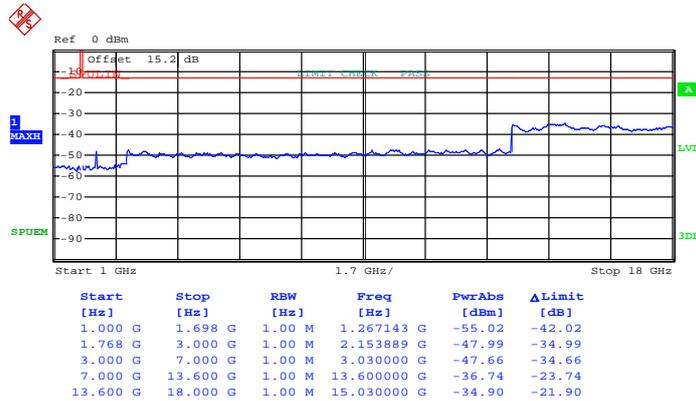
Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
Frequency :	1715	Channel :	20000

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 04:56:59

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

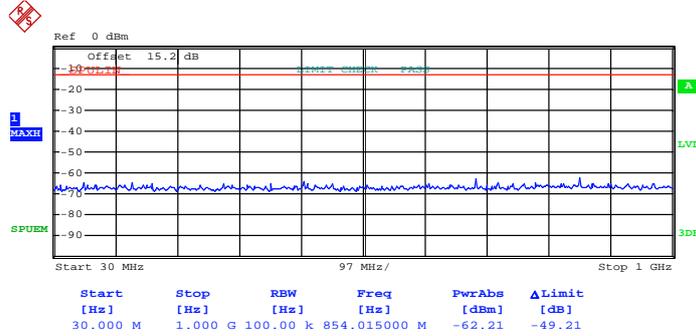


Date: 1.MAR.2013 04:56:02



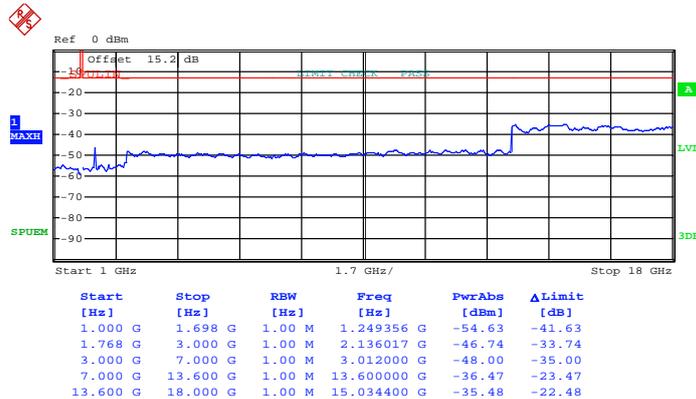
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	10MHz / 16QAM
<b>Frequency :</b>	1732.5	<b>Channel :</b>	20175

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 04:57:46

**Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)**

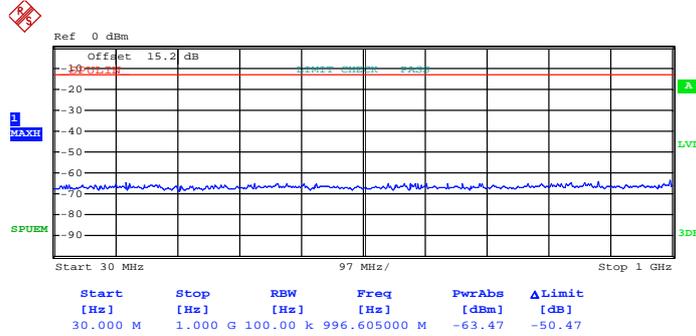


Date: 1.MAR.2013 04:58:54



<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	10MHz / 16QAM
<b>Frequency :</b>	1750	<b>Channel :</b>	20350

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 05:00:42

**Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)**

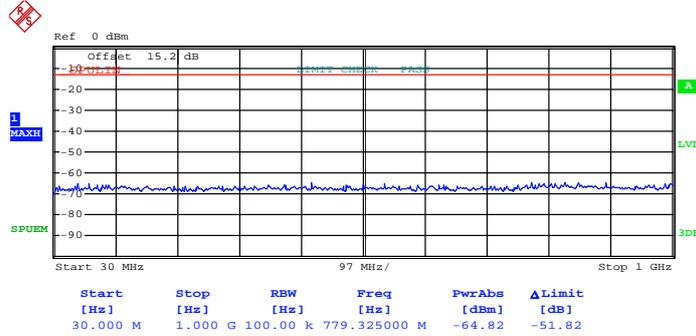


Date: 1.MAR.2013 04:59:35



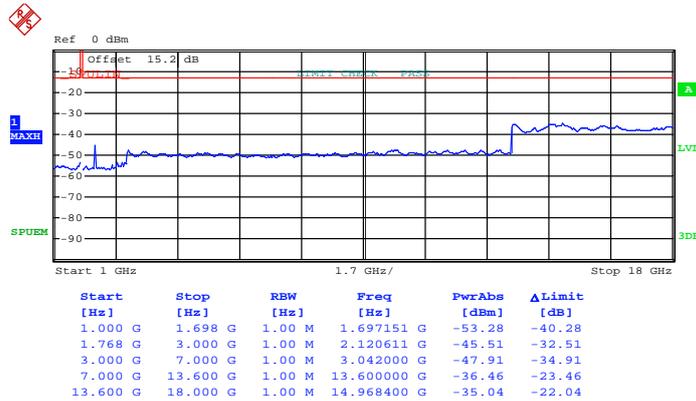
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
Frequency :	1717.5	Channel :	20025

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 05:08:05

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

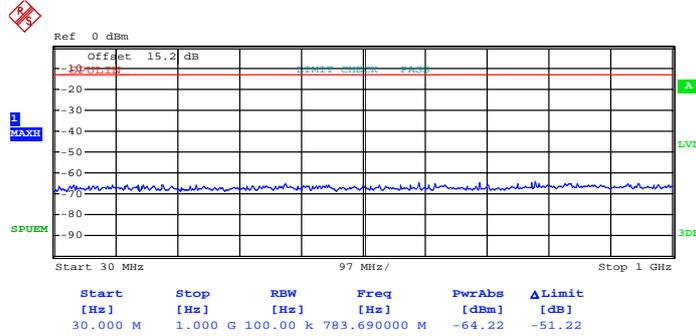


Date: 1.MAR.2013 05:08:39



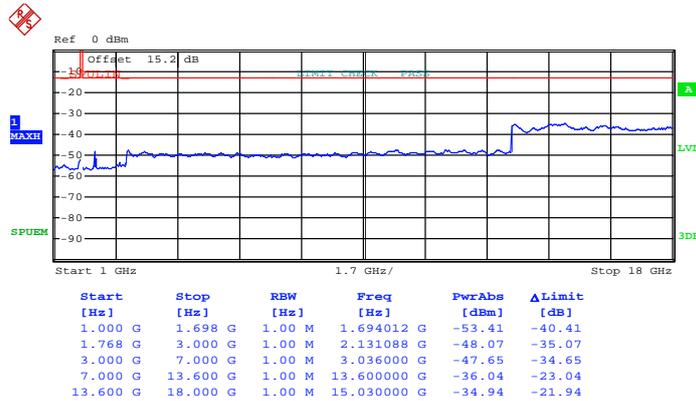
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 05:10:54

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

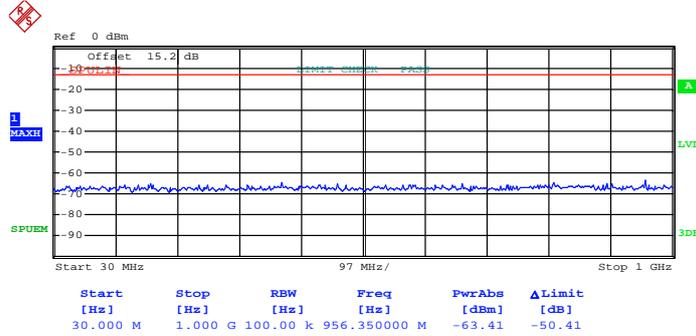


Date: 1.MAR.2013 05:10:24



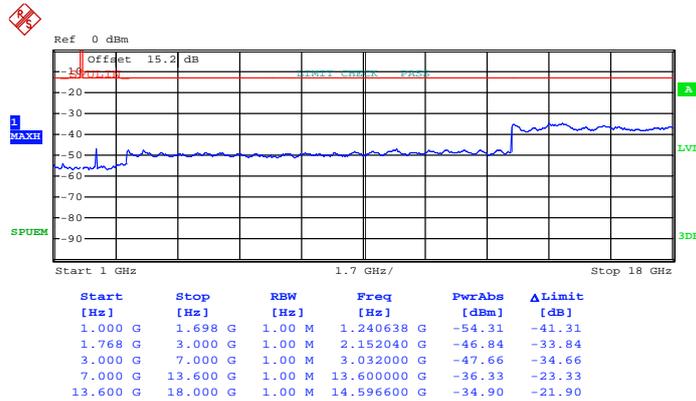
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
Frequency :	1747.5	Channel :	20325

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 05:12:18

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

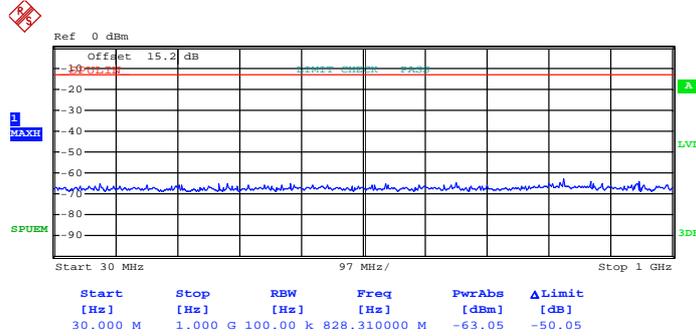


Date: 1.MAR.2013 05:12:49



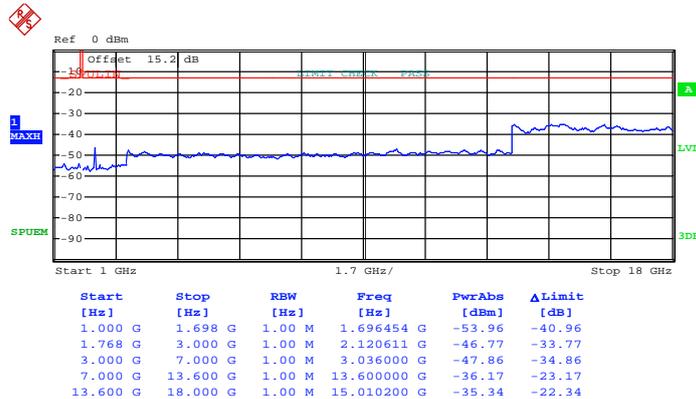
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
Frequency :	1717.5	Channel :	20025

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 05:07:49

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

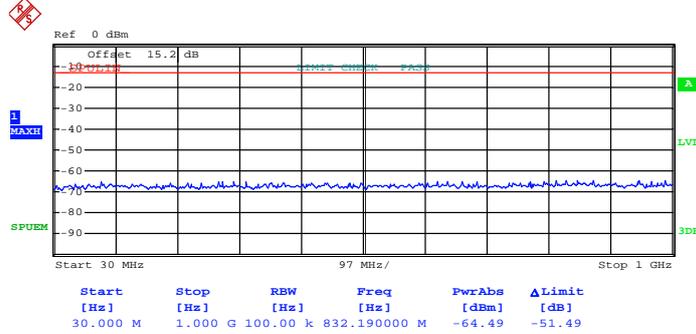


Date: 1.MAR.2013 05:09:05



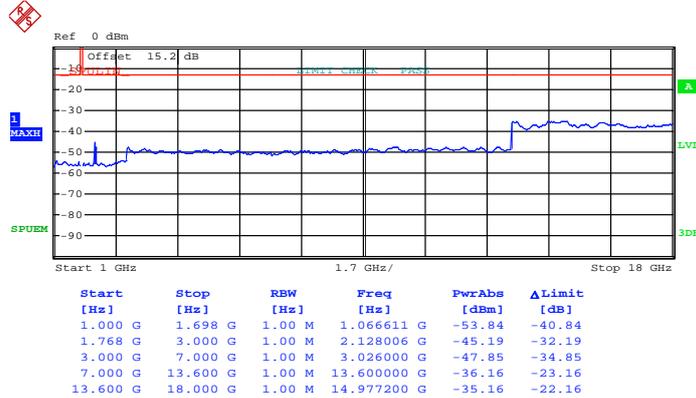
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	15MHz / 16QAM
<b>Frequency :</b>	1732.5	<b>Channel :</b>	20175

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 05:11:21

**Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)**

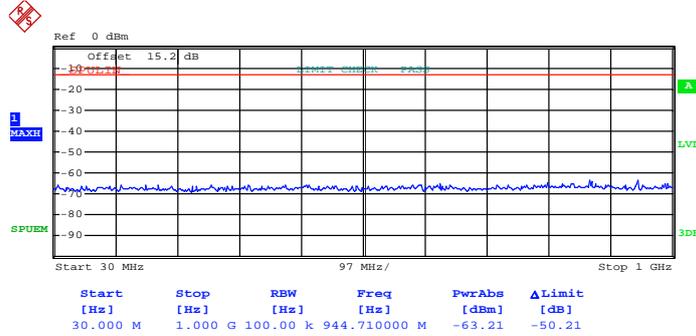


Date: 1.MAR.2013 05:10:05



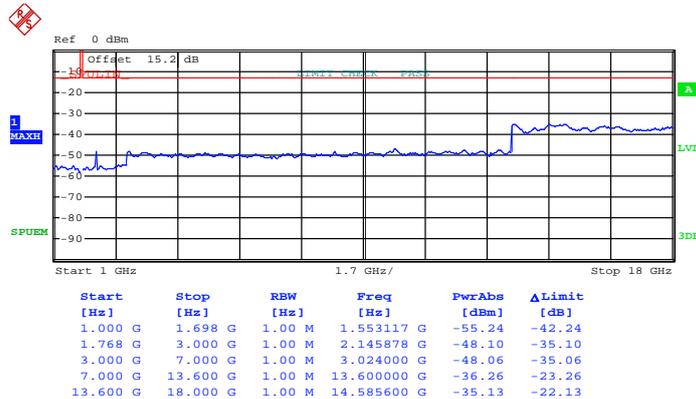
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
Frequency :	1747.5	Channel :	20325

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 05:12:02

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 0)

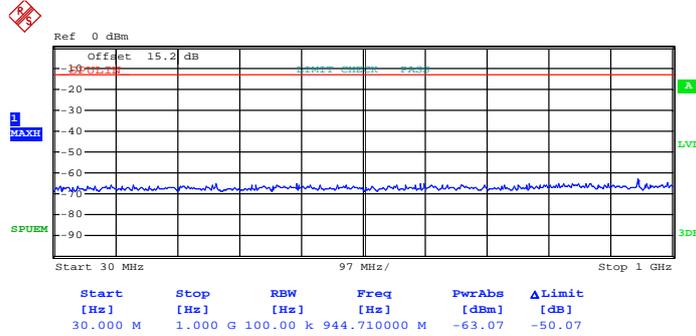


Date: 1.MAR.2013 05:13:13



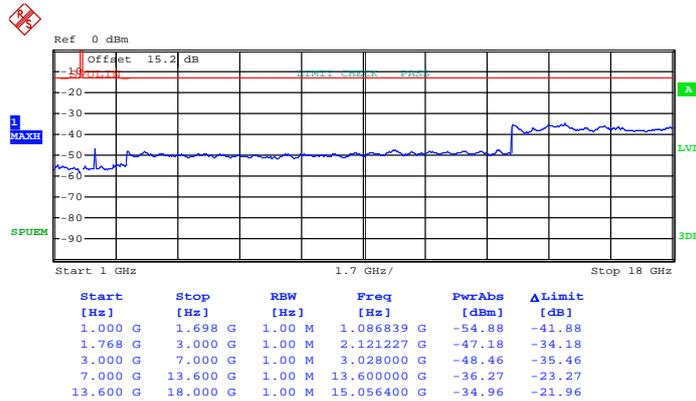
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	20MHz / QPSK
<b>Frequency :</b>	1720	<b>Channel :</b>	20050

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 05:20:16

**Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)**

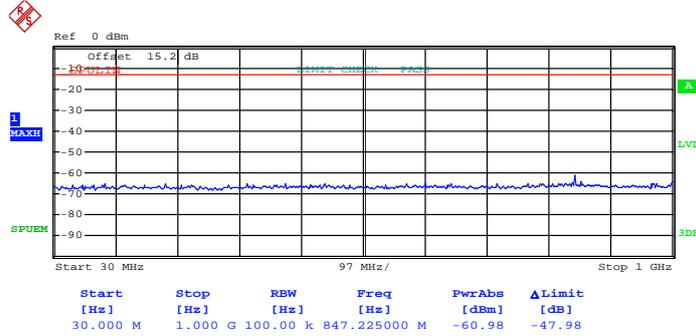


Date: 1.MAR.2013 05:19:43



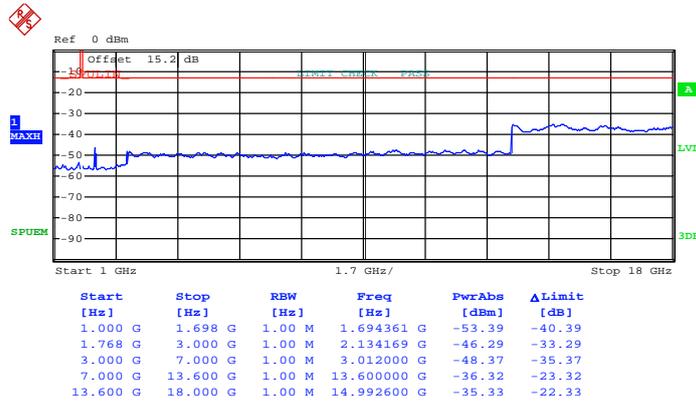
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 05:33:03

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

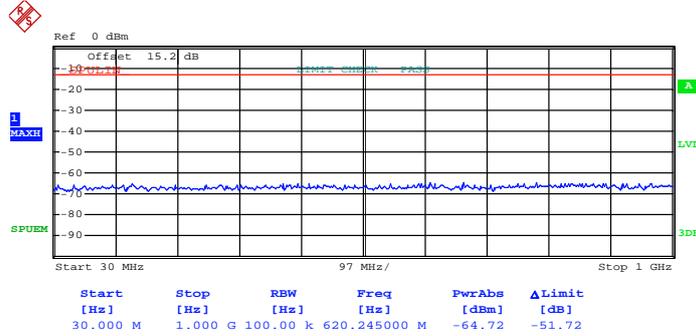


Date: 1.MAR.2013 05:33:37



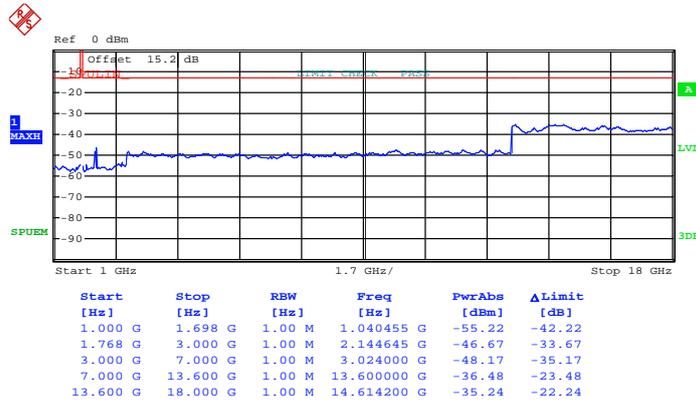
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	20MHz / QPSK
<b>Frequency :</b>	1745	<b>Channel :</b>	20300

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 05:35:24

**Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)**

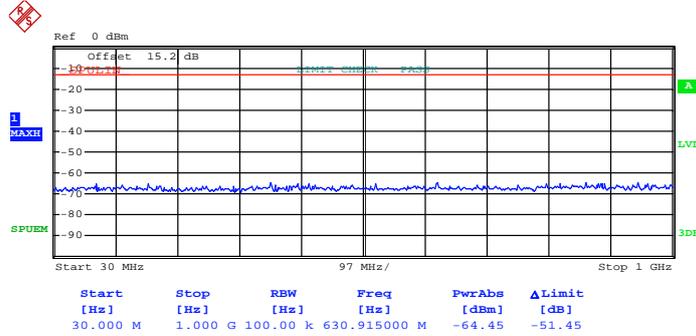


Date: 1.MAR.2013 05:35:01



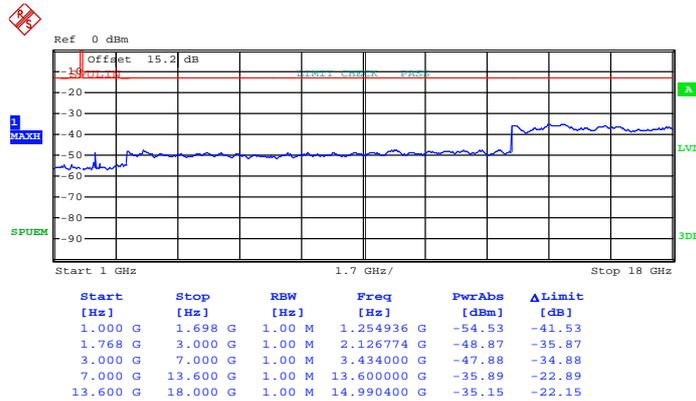
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	20MHz / 16QAM
<b>Frequency :</b>	1720	<b>Channel :</b>	20050

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 05:20:33

**Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)**

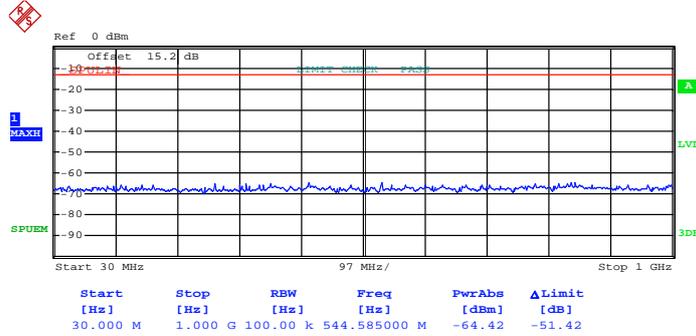


Date: 1.MAR.2013 05:19:18



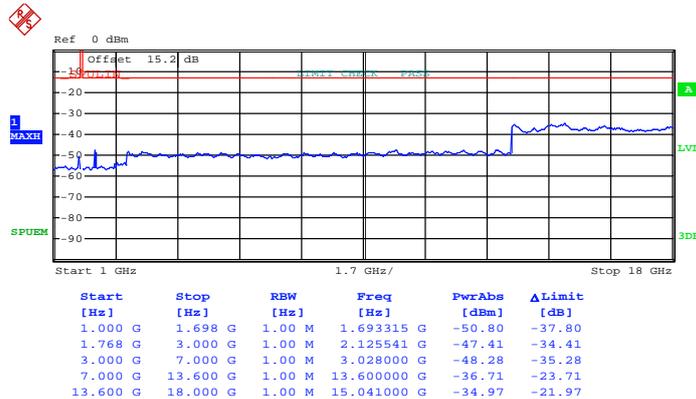
Band :	LTE Band 4	BW / Mod. :	20MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 05:32:27

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

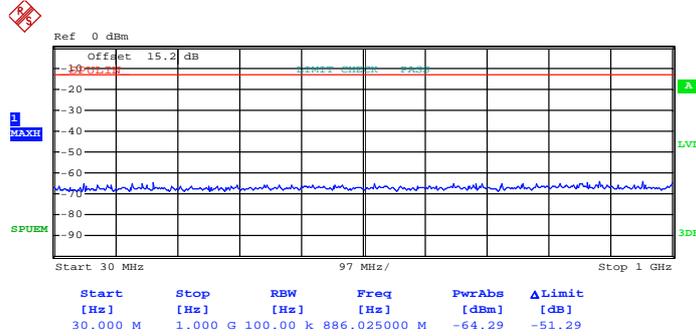


Date: 1.MAR.2013 05:34:05



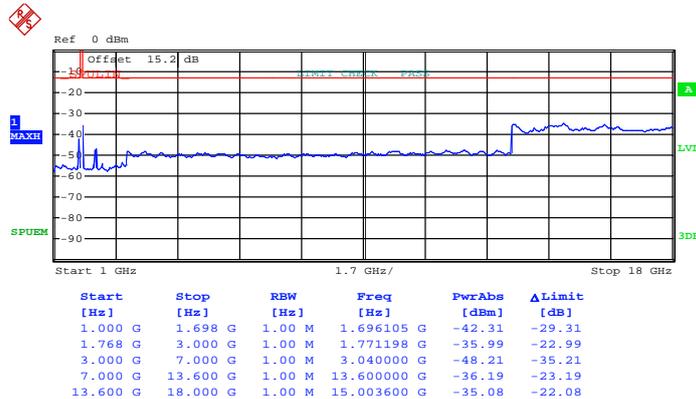
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	20MHz / 16QAM
<b>Frequency :</b>	1745	<b>Channel :</b>	20300

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 05:35:40

**Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)**

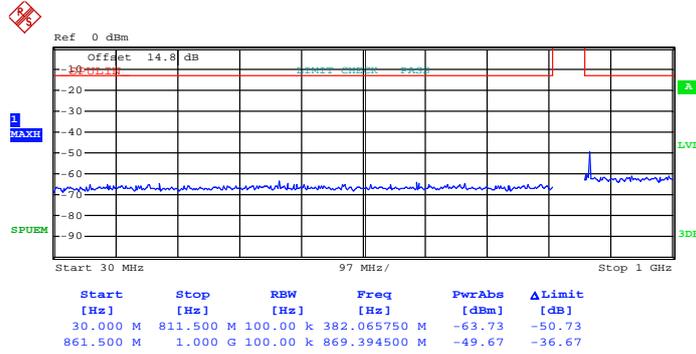


Date: 1.MAR.2013 05:34:40



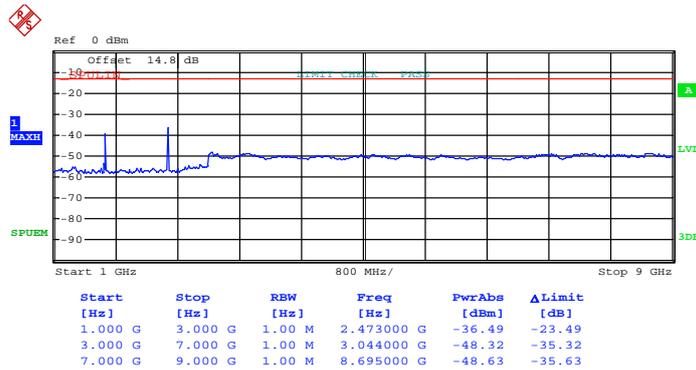
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	1.4MHz / QPSK
<b>Frequency :</b>	824.7	<b>Channel :</b>	20407

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 07:29:38

**Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)**

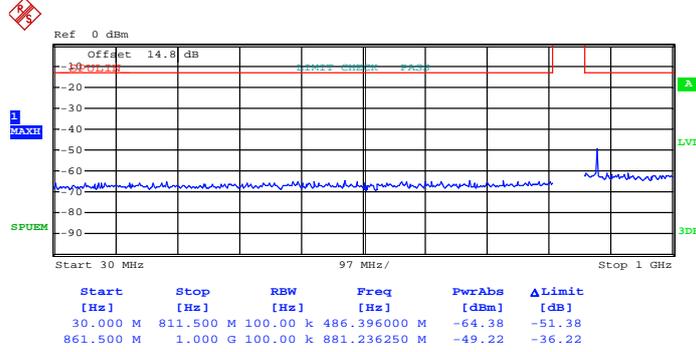


Date: 1.MAR.2013 07:41:52



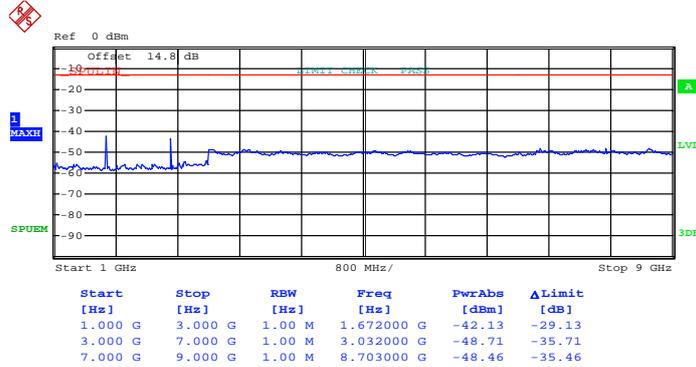
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 07:44:52

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

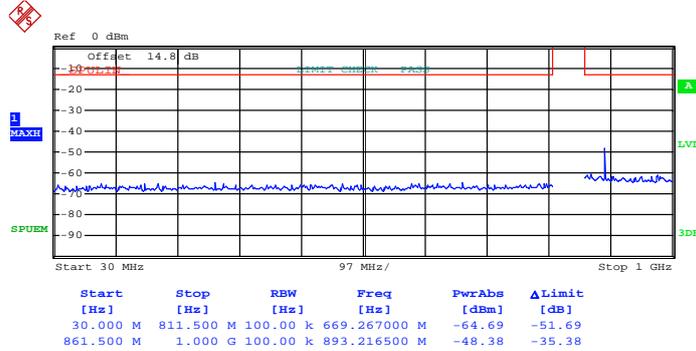


Date: 1.MAR.2013 07:44:10



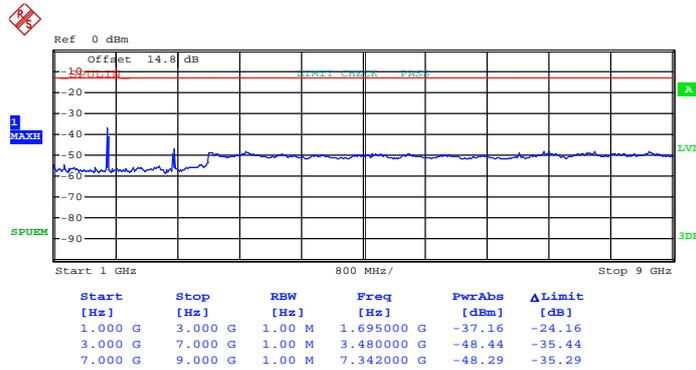
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
Frequency :	848.3	Channel :	20643

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 07:46:14

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

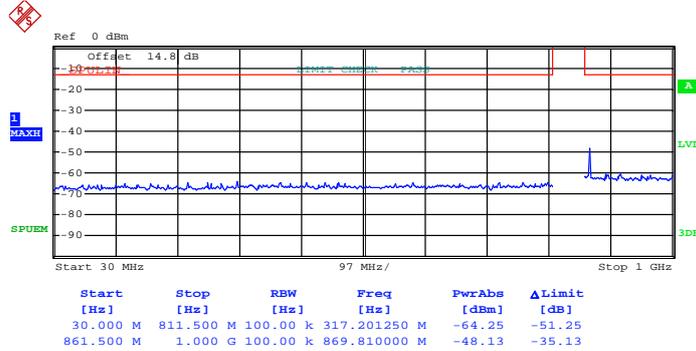


Date: 1.MAR.2013 07:46:43



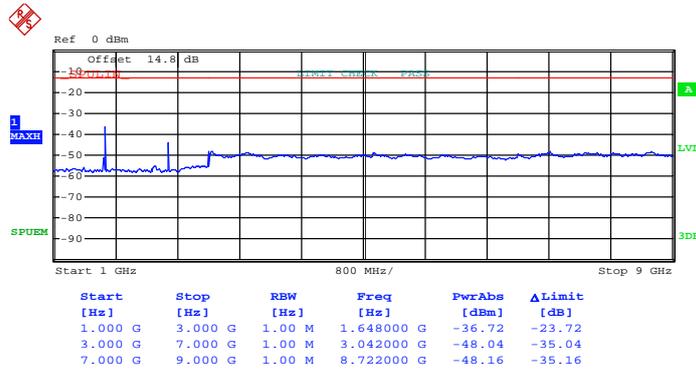
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
Frequency :	824.7	Channel :	20407

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 07:28:39

Conducted Emission Plot (1GHz ~ 9GHz) for  
16-QAM (RB Size 1, RB Offset 0)

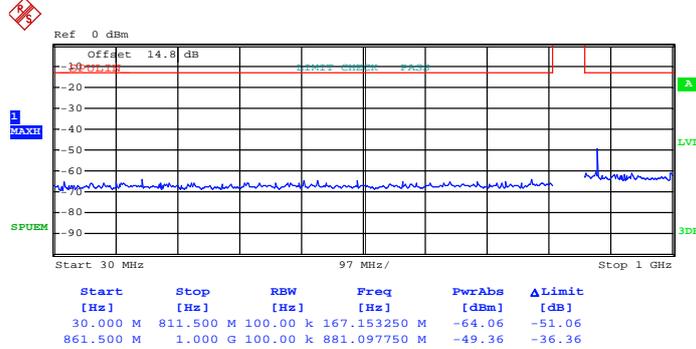


Date: 1.MAR.2013 07:42:09



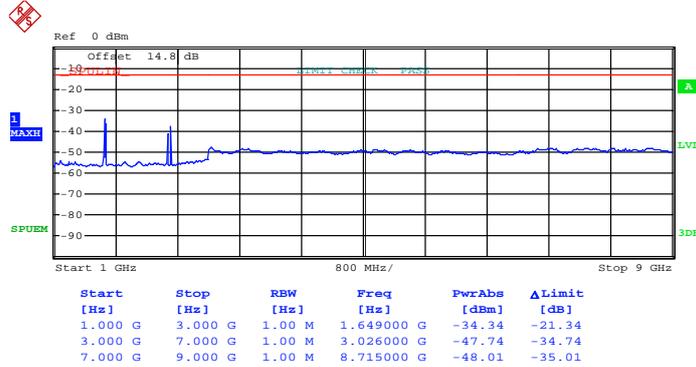
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 07:45:09

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

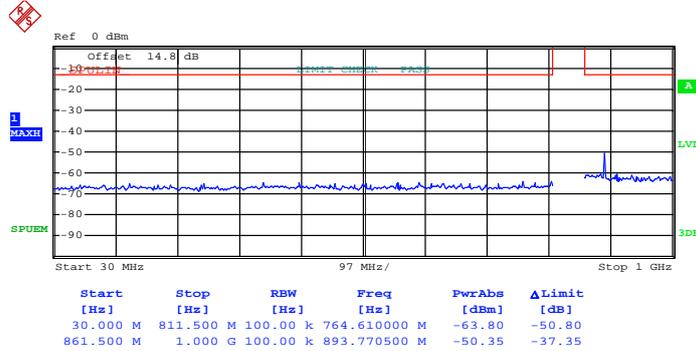


Date: 1.MAR.2013 07:43:53



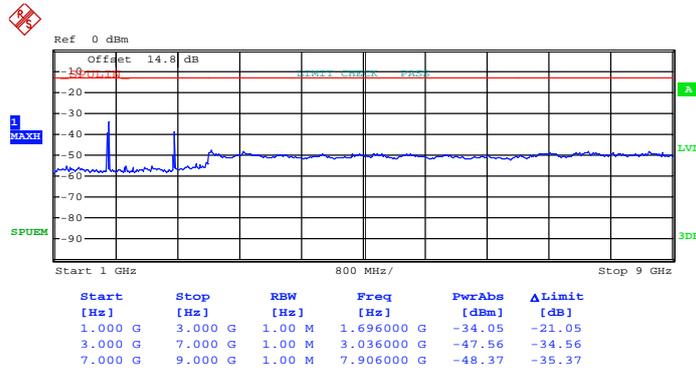
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
Frequency :	848.3	Channel :	20643

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 07:45:57

Conducted Emission Plot (1GHz ~ 9GHz) for  
16-QAM (RB Size 1, RB Offset 0)

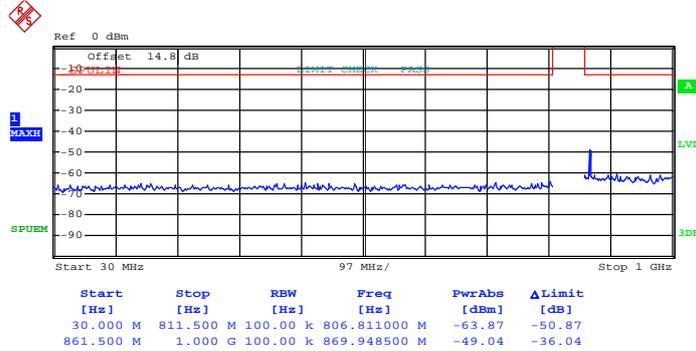


Date: 1.MAR.2013 07:46:59



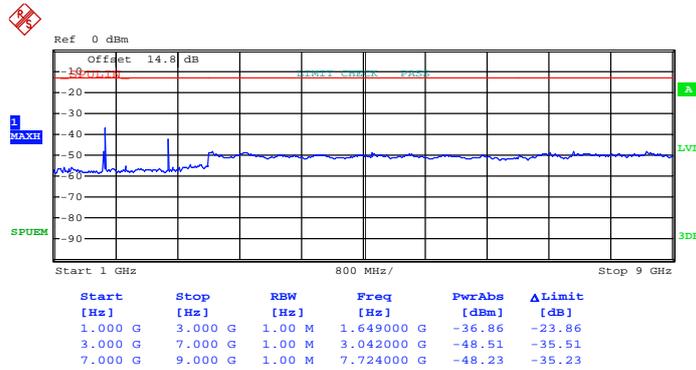
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	3MHz / QPSK
<b>Frequency :</b>	825.5	<b>Channel :</b>	20415

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 14)**



Date: 1.MAR.2013 08:08:14

**Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 14)**

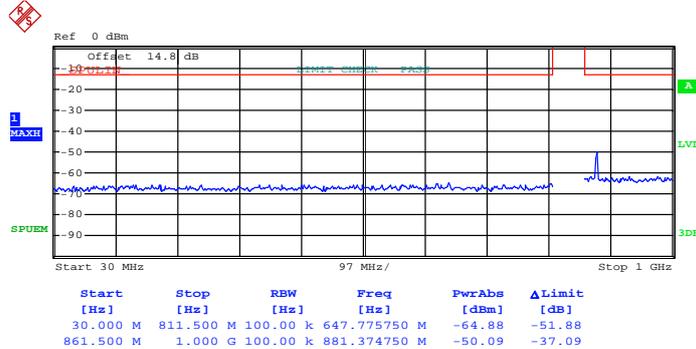


Date: 1.MAR.2013 08:08:39



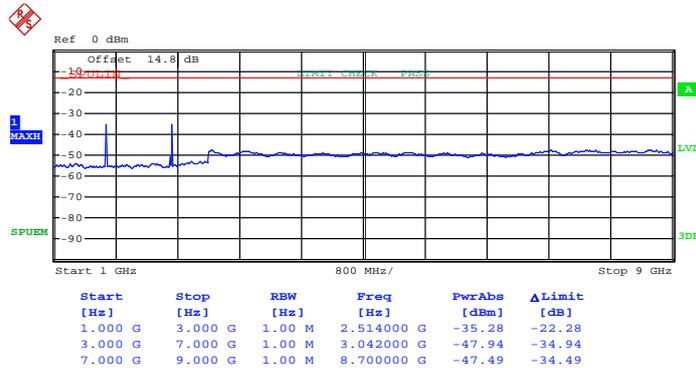
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 07:51:44

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

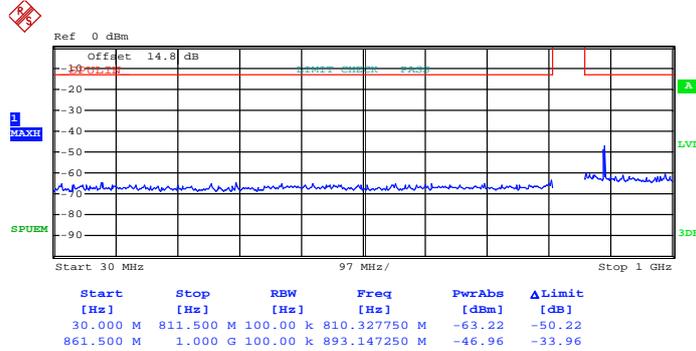


Date: 1.MAR.2013 08:05:53



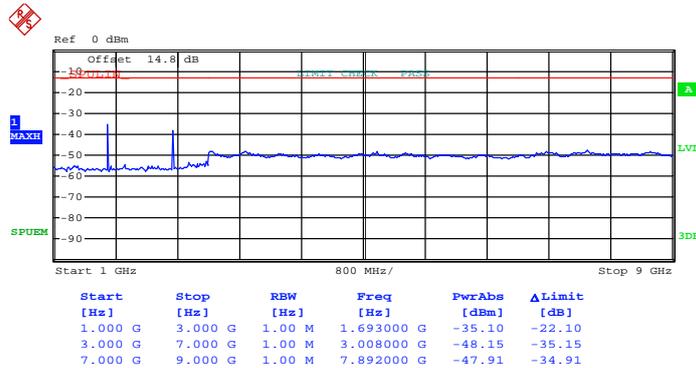
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
Frequency :	847.5	Channel :	20635

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 07:50:17

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

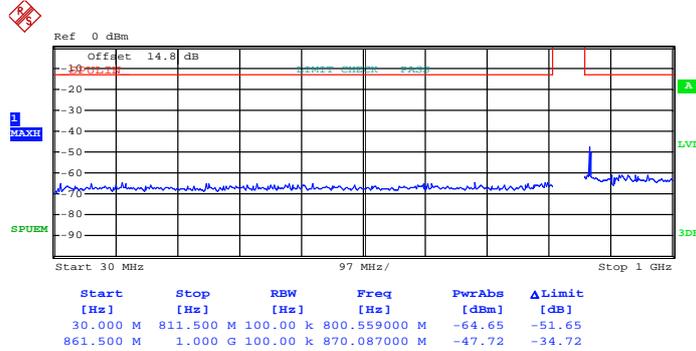


Date: 1.MAR.2013 07:49:17



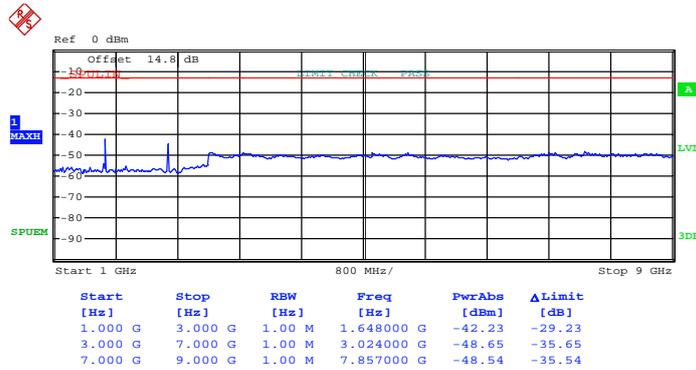
Band :	LTE Band 5	BW / Mod. :	3MHz / 16QAM
Frequency :	825.5	Channel :	20415

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 7)



Date: 1.MAR.2013 08:07:56

Conducted Emission Plot (1GHz ~ 9GHz) for  
16-QAM (RB Size 1, RB Offset 7)

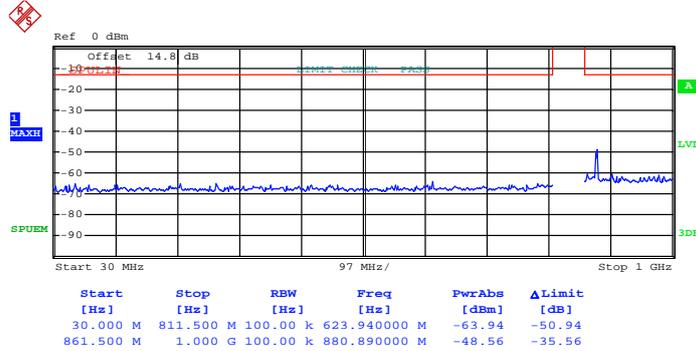


Date: 1.MAR.2013 08:08:53



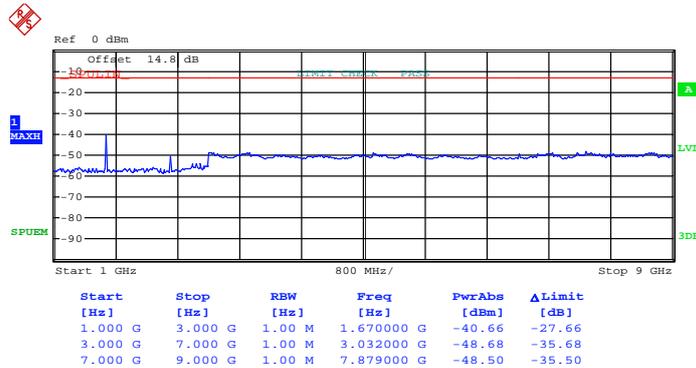
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	3MHz / 16QAM
<b>Frequency :</b>	836.5	<b>Channel :</b>	20525

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 08:07:05

**Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)**

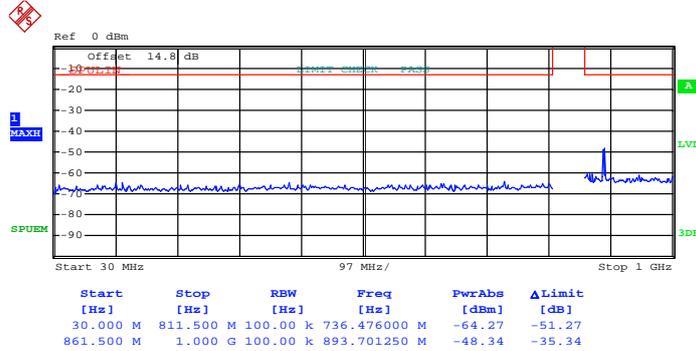


Date: 1.MAR.2013 08:06:36



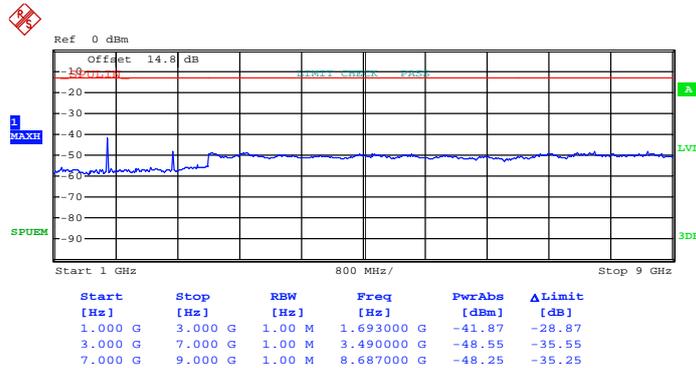
Band :	LTE Band 5	BW / Mod. :	3MHz / 16QAM
Frequency :	847.5	Channel :	20635

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 07:49:56

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

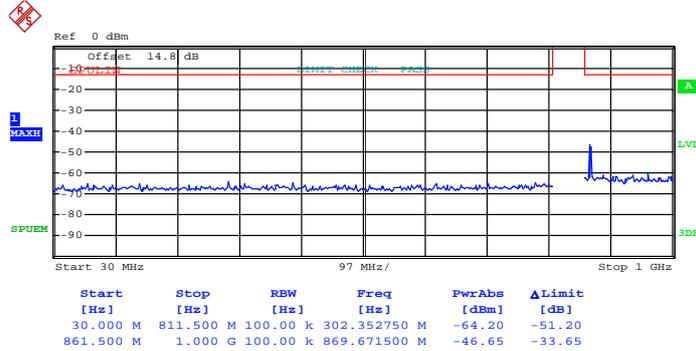


Date: 1.MAR.2013 07:49:35



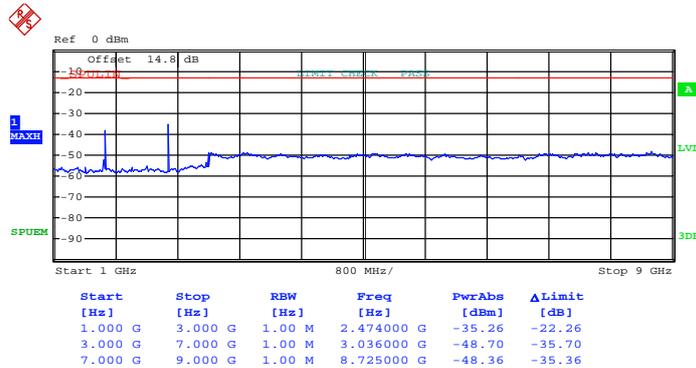
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	5MHz / QPSK
<b>Frequency :</b>	826.5	<b>Channel :</b>	20425

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 24)



Date: 1.MAR.2013 08:10:45

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 24)

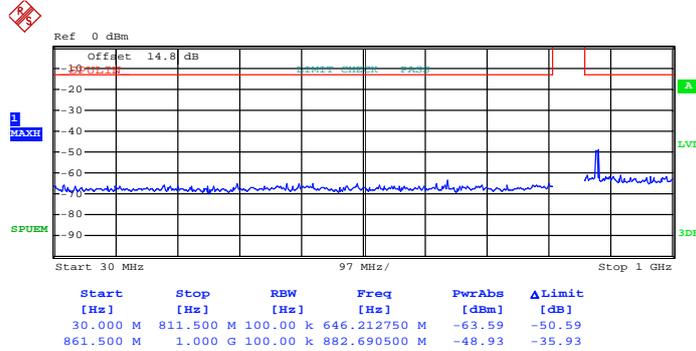


Date: 1.MAR.2013 08:10:19



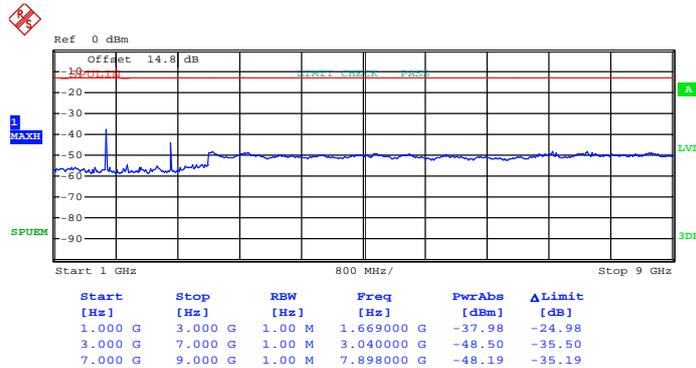
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 08:11:52

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

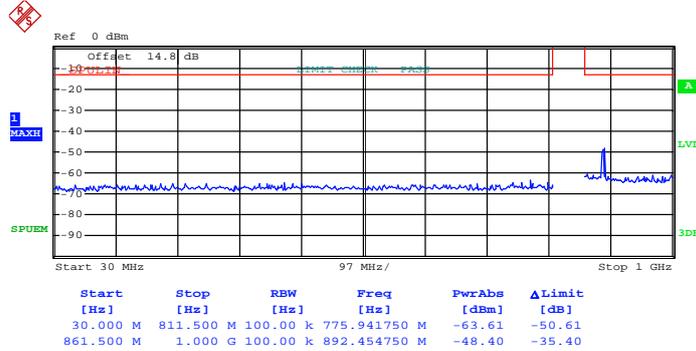


Date: 1.MAR.2013 08:12:19



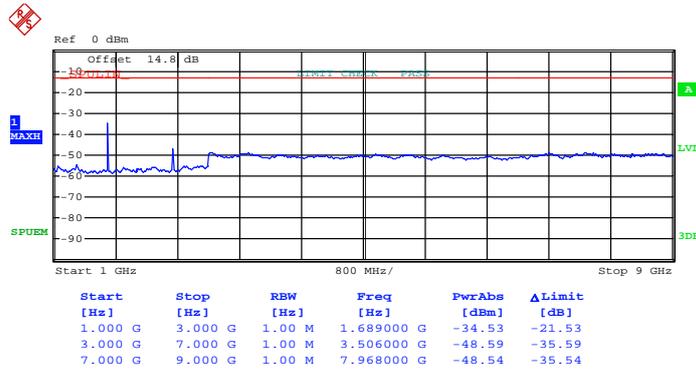
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
Frequency :	846.5	Channel :	20625

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 08:13:54

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

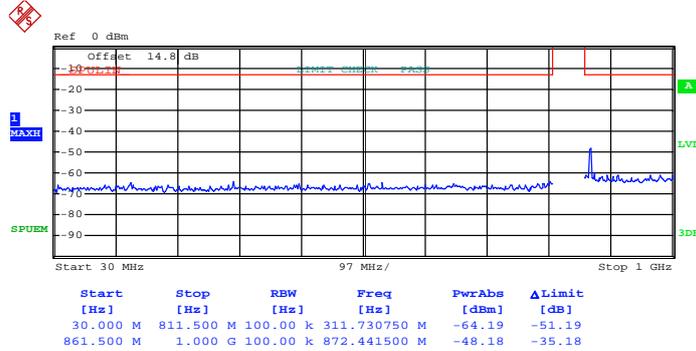


Date: 1.MAR.2013 08:13:33



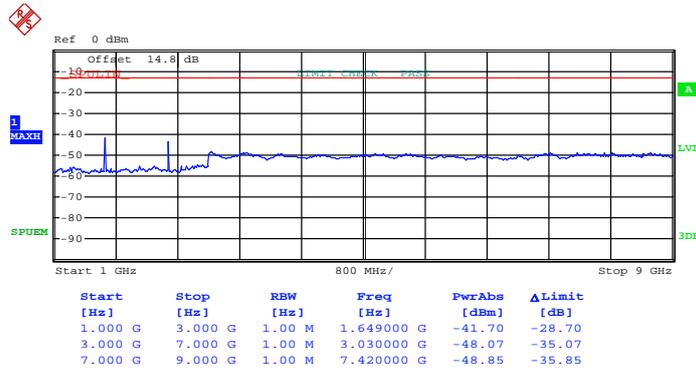
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	5MHz / 16QAM
<b>Frequency :</b>	826.5	<b>Channel :</b>	20425

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 24)**



Date: 1.MAR.2013 08:11:00

**Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 24)**

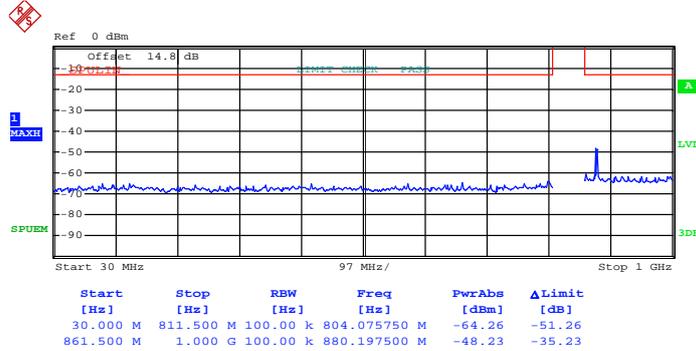


Date: 1.MAR.2013 08:10:02



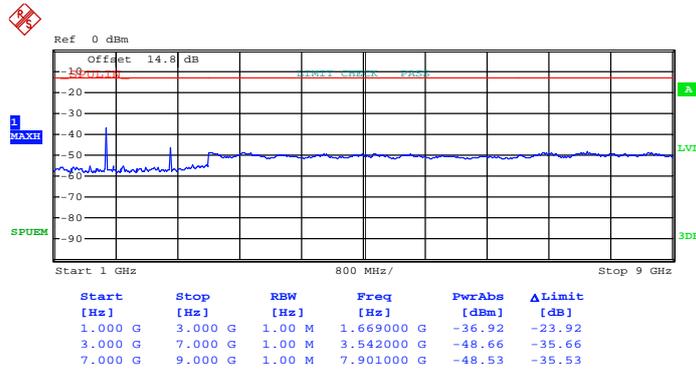
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 08:11:34

Conducted Emission Plot (1GHz ~ 9GHz) for  
16-QAM (RB Size 1, RB Offset 0)

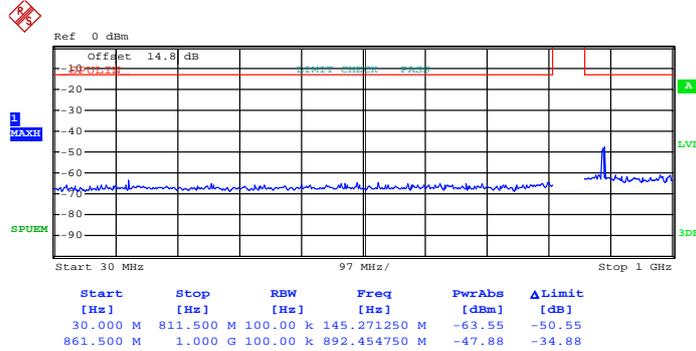


Date: 1.MAR.2013 08:12:45



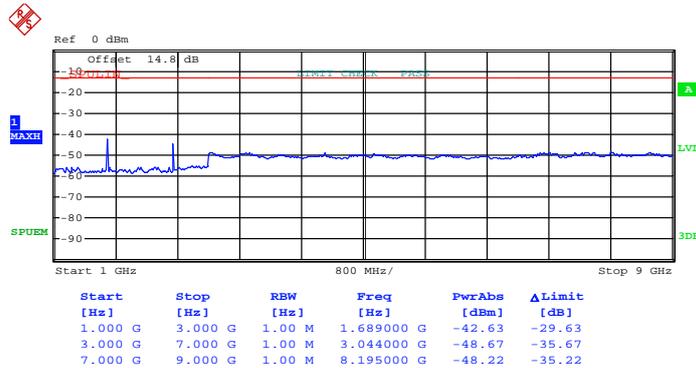
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
Frequency :	846.5	Channel :	20625

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 08:14:10

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

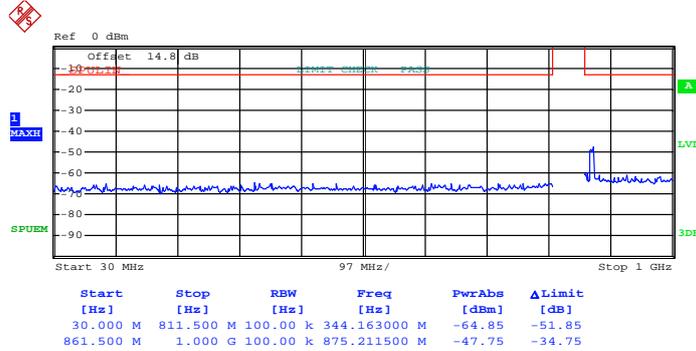


Date: 1.MAR.2013 08:13:20



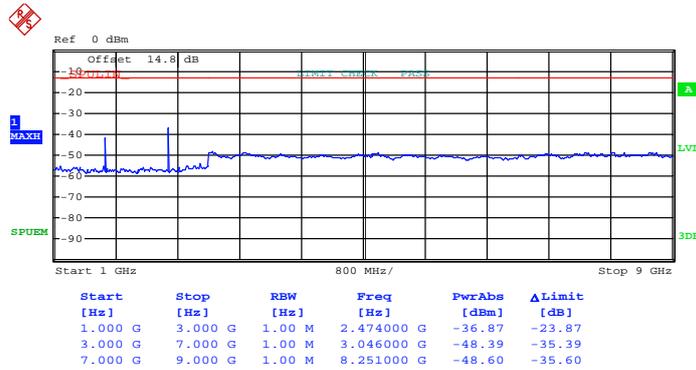
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
Frequency :	829	Channel :	20450

Conducted Emission Plot (30MHz ~ 1GHz) for  
QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 08:17:35

Conducted Emission Plot (1GHz ~ 9GHz) for  
QPSK (RB Size 1, RB Offset 0)

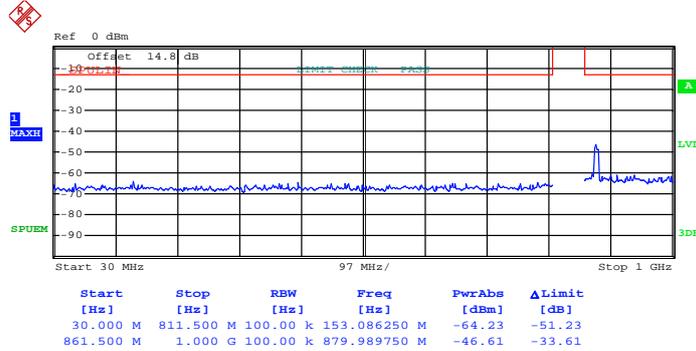


Date: 1.MAR.2013 08:18:15



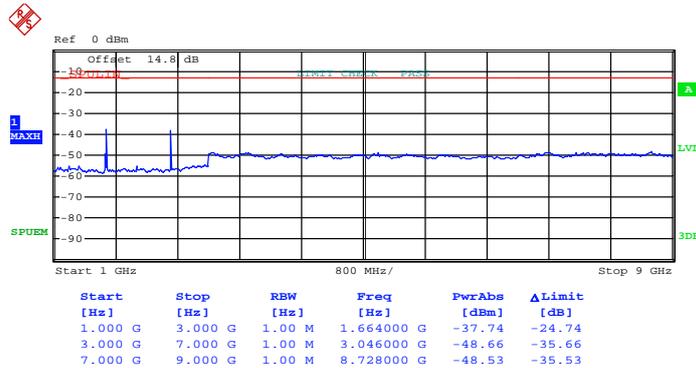
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 08:21:41

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

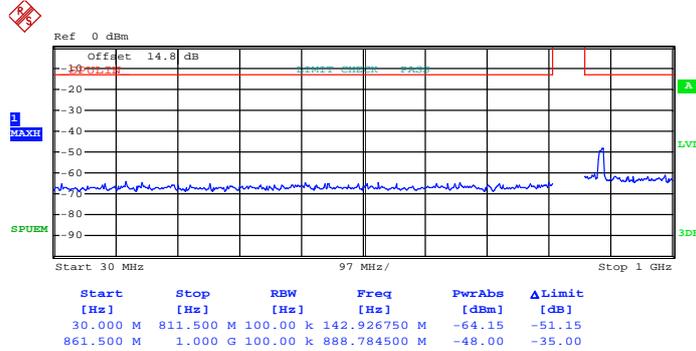


Date: 1.MAR.2013 08:21:18



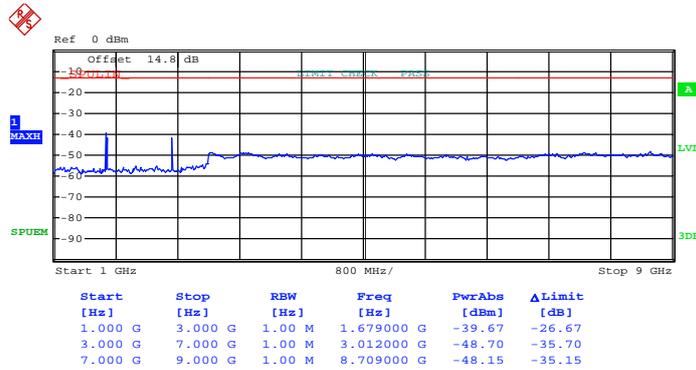
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
Frequency :	844	Channel :	20600

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 08:23:00

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

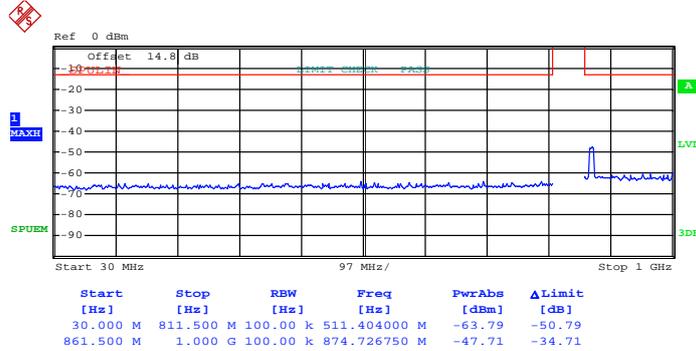


Date: 1.MAR.2013 08:23:28



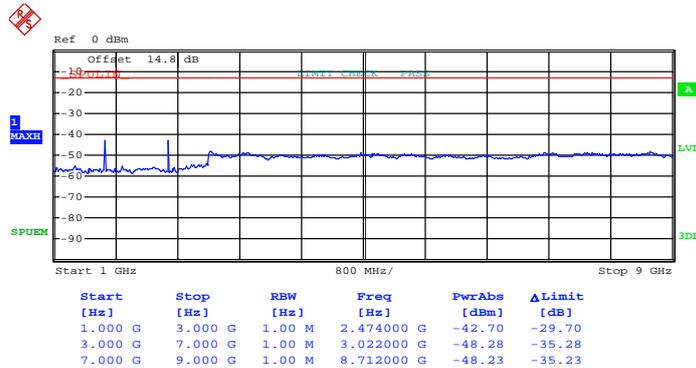
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	10MHz / 16QAM
<b>Frequency :</b>	829	<b>Channel :</b>	20450

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 08:17:18

**Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)**

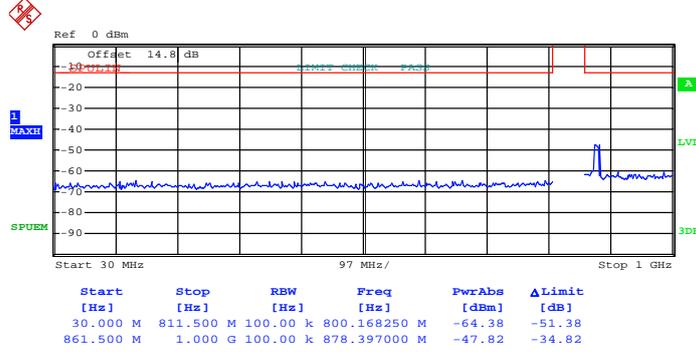


Date: 1.MAR.2013 08:18:29



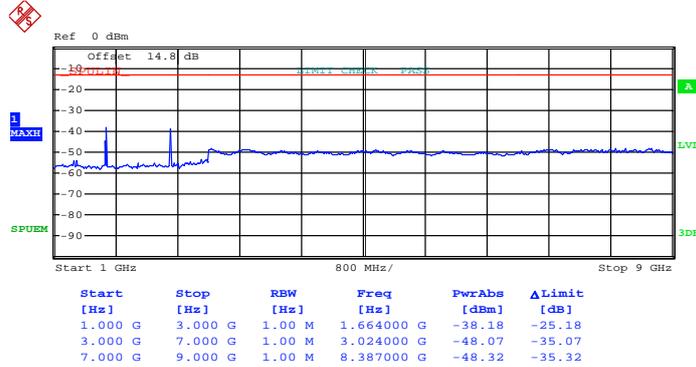
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	10MHz / 16QAM
<b>Frequency :</b>	836.5	<b>Channel :</b>	20525

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 1.MAR.2013 08:22:03

**Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)**

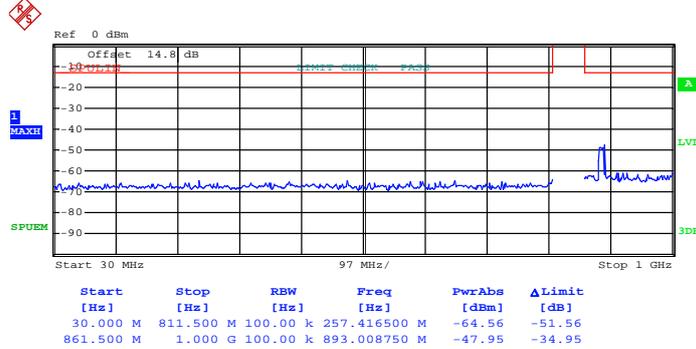


Date: 1.MAR.2013 08:20:59



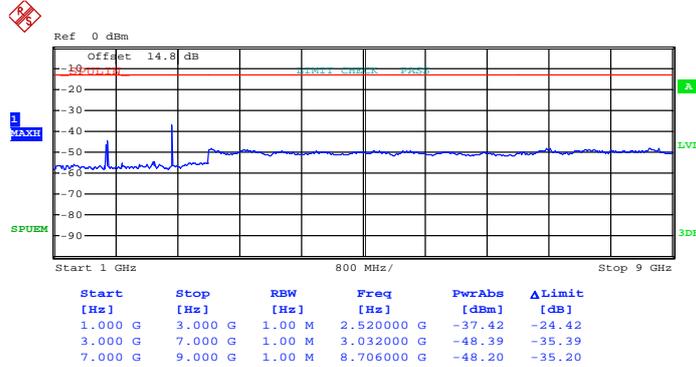
Band :	LTE Band 5	BW / Mod. :	10MHz / 16QAM
Frequency :	844	Channel :	20350

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 08:22:35

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

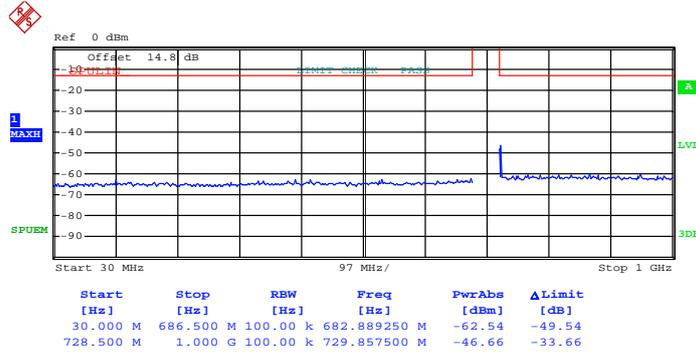


Date: 1.MAR.2013 08:24:09



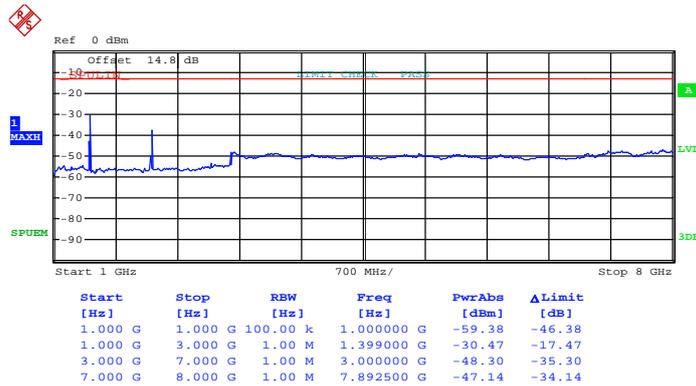
Band :	LTE Band 12	BW / Mod. :	1.4MHz / QPSK
Frequency :	699.7	Channel :	23017

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 2.MAR.2013 09:46:47

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)

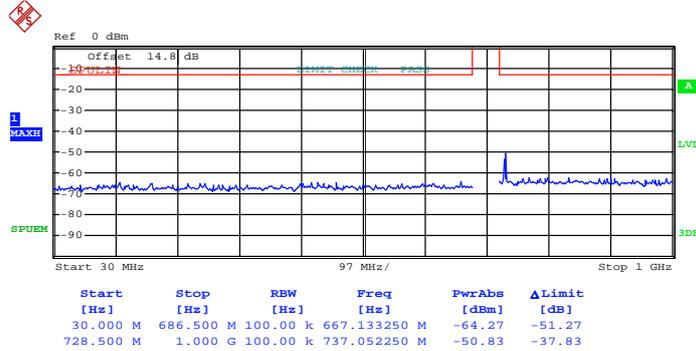


Date: 2.MAR.2013 09:48:11



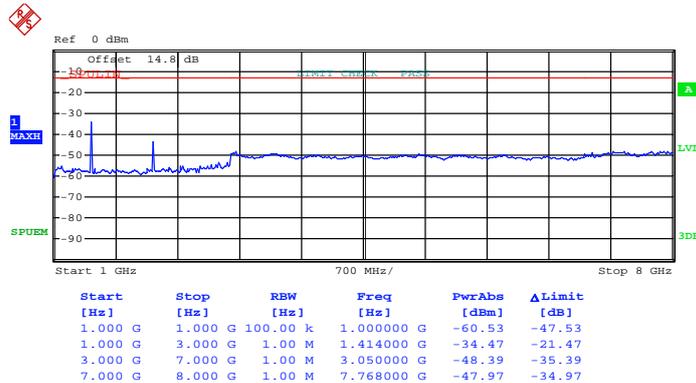
Band :	LTE Band 12	BW / Mod. :	1.4MHz / QPSK
Frequency :	707.5	Channel :	23095

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 2.MAR.2013 09:56:47

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)

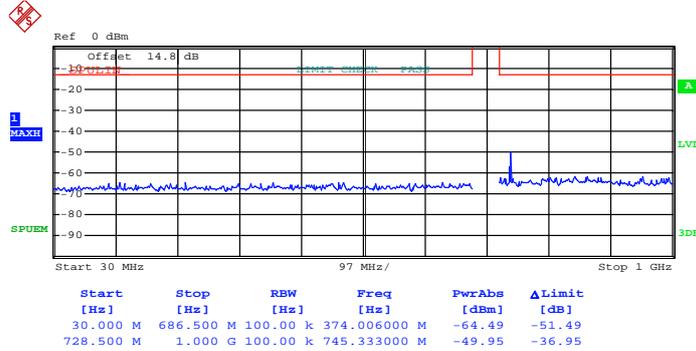


Date: 2.MAR.2013 09:57:39



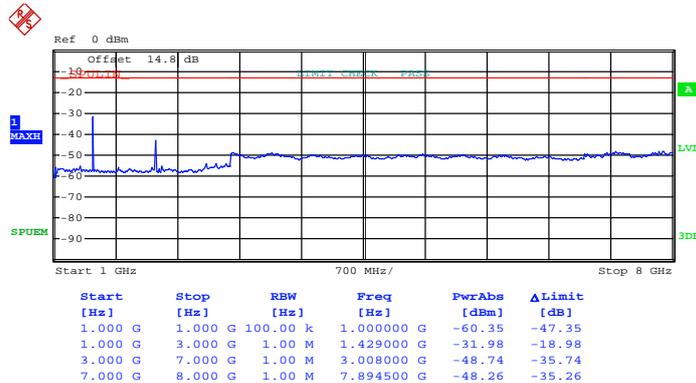
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	1.4MHz / QPSK
<b>Frequency :</b>	715.3	<b>Channel :</b>	23173

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 10:05:05

**Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)**

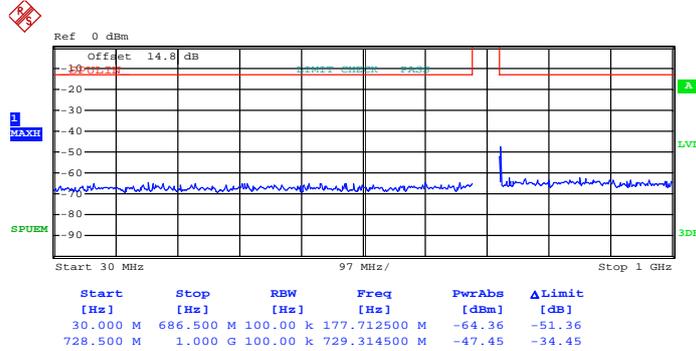


Date: 2.MAR.2013 10:04:18



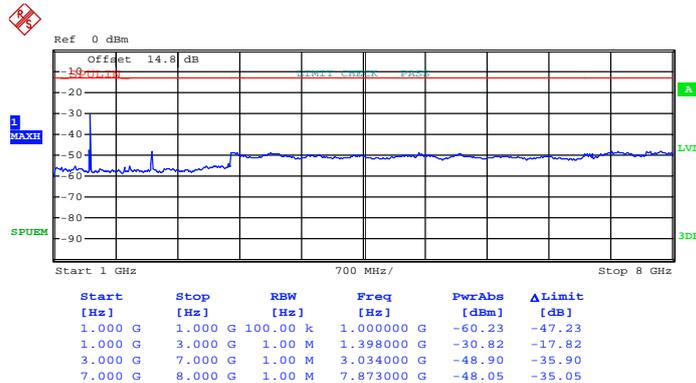
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	1.4MHz / 16QAM
<b>Frequency :</b>	699.7	<b>Channel :</b>	23017

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 09:47:06

**Conducted Emission Plot (1GHz ~ 8GHz) for 16-QAM (RB Size 1, RB Offset 0)**

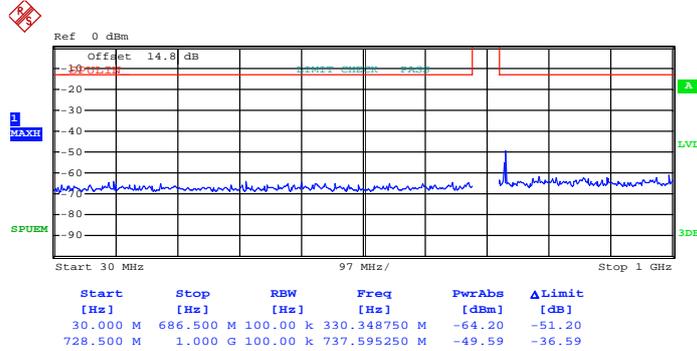


Date: 2.MAR.2013 09:47:39



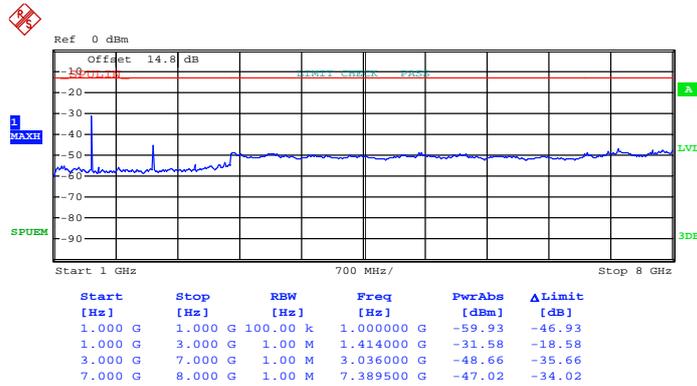
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	1.4MHz / 16QAM
<b>Frequency :</b>	707.5	<b>Channel :</b>	23095

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 09:56:59

**Conducted Emission Plot (1GHz ~ 8GHz) for 16-QAM (RB Size 1, RB Offset 0)**

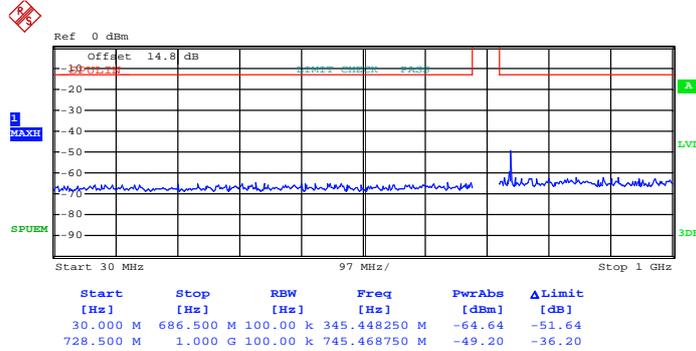


Date: 2.MAR.2013 09:57:26



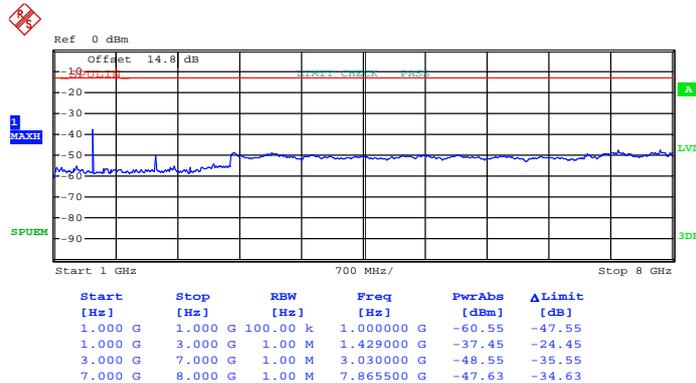
Band :	LTE Band 12	BW / Mod. :	1.4MHz / 16QAM
Frequency :	715.3	Channel :	23173

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 2.MAR.2013 10:04:54

Conducted Emission Plot (1GHz ~ 8GHz) for 16-QAM (RB Size 1, RB Offset 0)

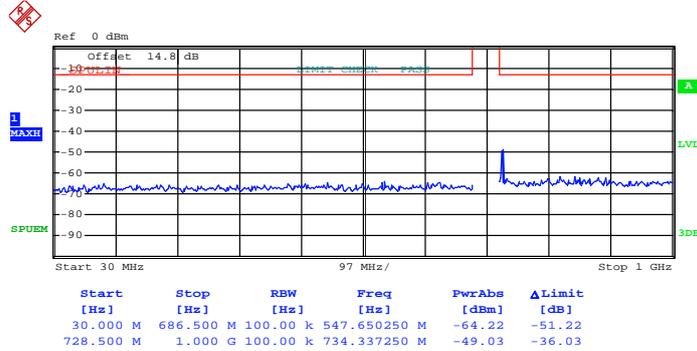


Date: 2.MAR.2013 10:04:34



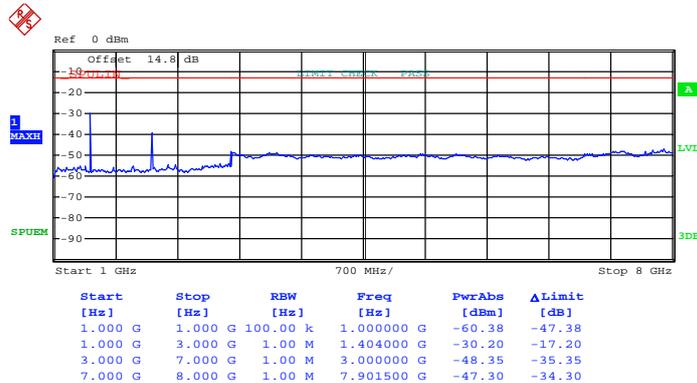
Band :	LTE Band 12	BW / Mod. :	3MHz / QPSK
Frequency :	700.5	Channel :	23025

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 2.MAR.2013 09:50:26

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)

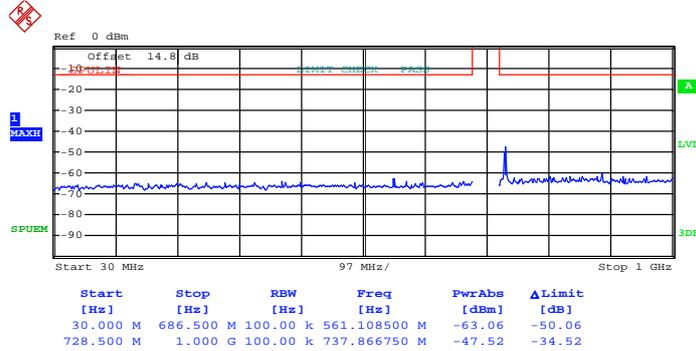


Date: 2.MAR.2013 09:49:23



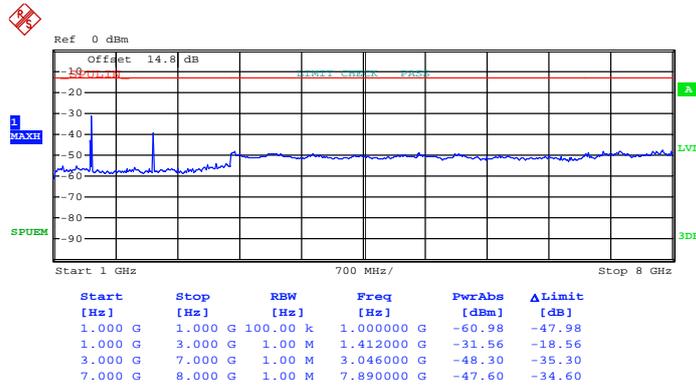
Band :	LTE Band 12	BW / Mod. :	3MHz / QPSK
Frequency :	707.5	Channel :	23095

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 2.MAR.2013 09:58:57

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)

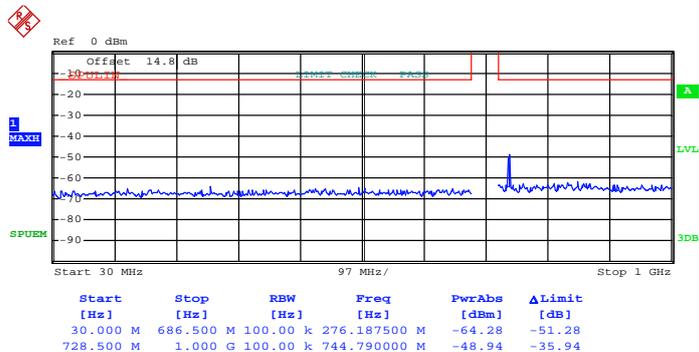


Date: 2.MAR.2013 09:57:58



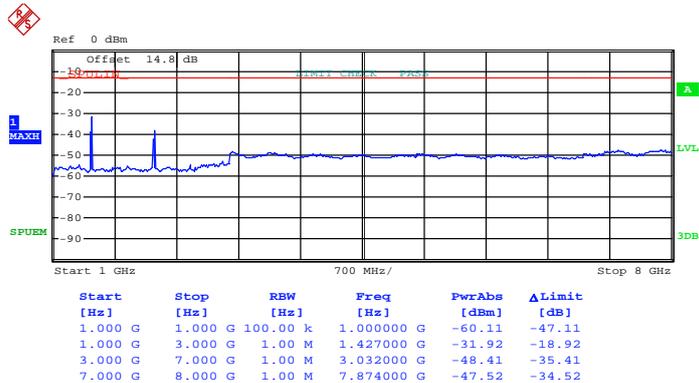
Band :	LTE Band 12	BW / Mod. :	3MHz / QPSK
Frequency :	714.5	Channel :	23165

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 14)



Date: 2.MAR.2013 10:05:50

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 14)

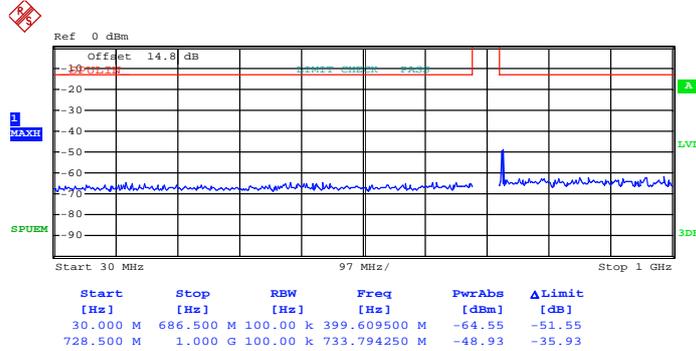


Date: 2.MAR.2013 10:06:56



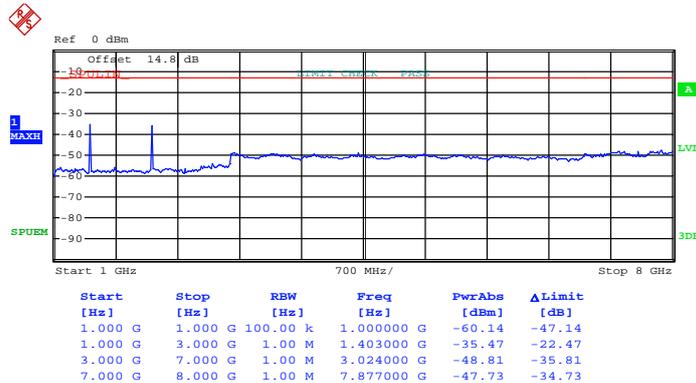
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	3MHz / 16QAM
<b>Frequency :</b>	700.5	<b>Channel :</b>	23025

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 09:50:05

**Conducted Emission Plot (1GHz ~ 8GHz) for 16-QAM (RB Size 1, RB Offset 0)**

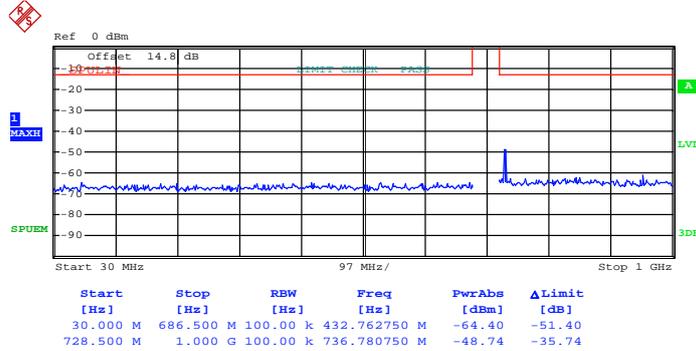


Date: 2.MAR.2013 09:49:37



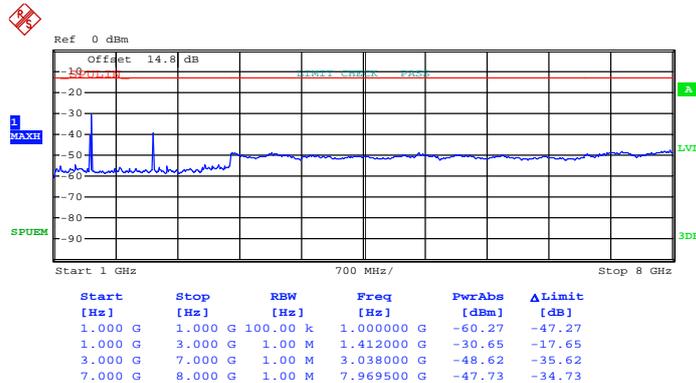
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	3MHz / 16QAM
<b>Frequency :</b>	707.5	<b>Channel :</b>	23095

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 09:58:38

**Conducted Emission Plot (1GHz ~ 8GHz) for 16-QAM (RB Size 1, RB Offset 0)**

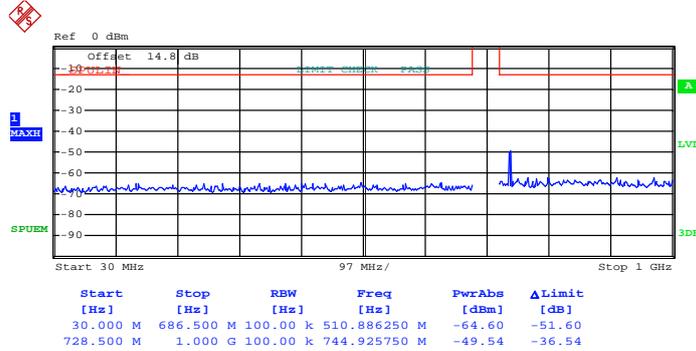


Date: 2.MAR.2013 09:58:10



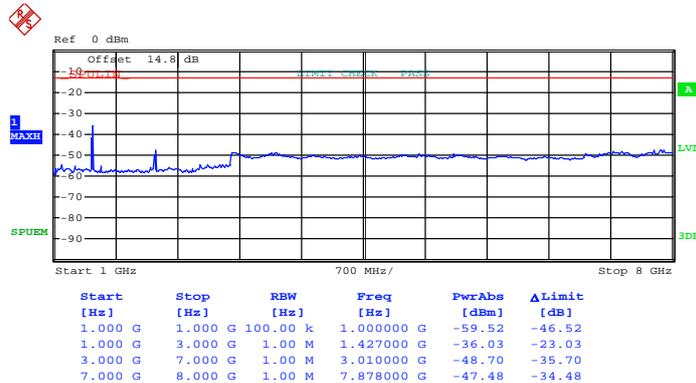
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	3MHz / 16QAM
<b>Frequency :</b>	714.5	<b>Channel :</b>	23165

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 10:06:02

**Conducted Emission Plot (1GHz ~ 8GHz) for 16-QAM (RB Size 1, RB Offset 0)**

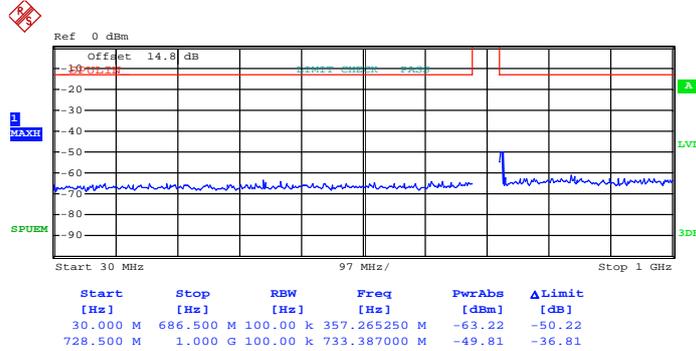


Date: 2.MAR.2013 10:06:25



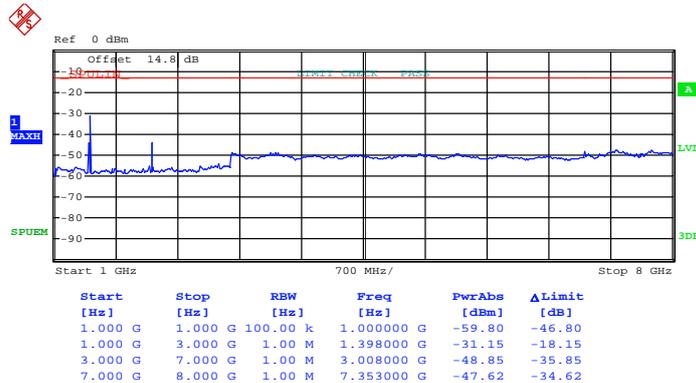
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	5MHz / QPSK
<b>Frequency :</b>	701.5	<b>Channel :</b>	23035

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 09:51:30

**Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)**

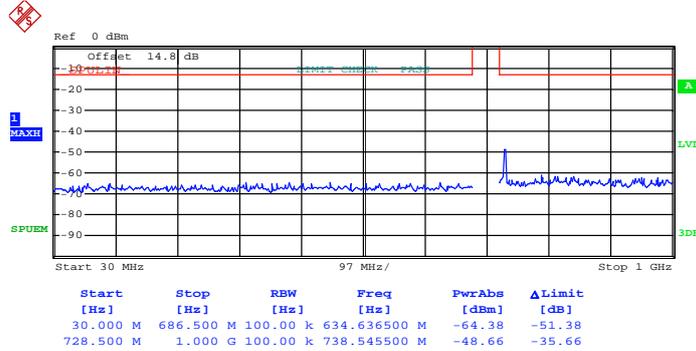


Date: 2.MAR.2013 09:52:23



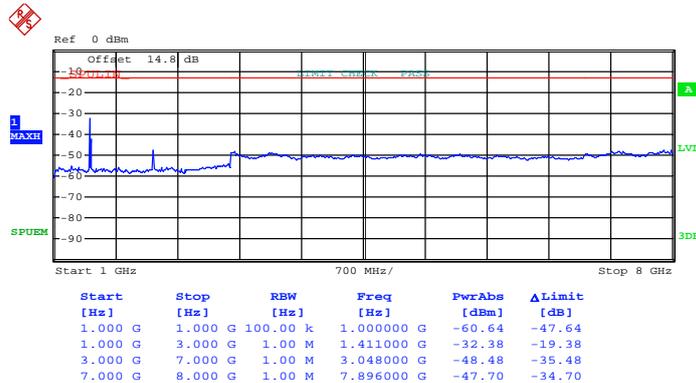
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	5MHz / QPSK
<b>Frequency :</b>	707.5	<b>Channel :</b>	23095

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 09:59:34

**Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)**

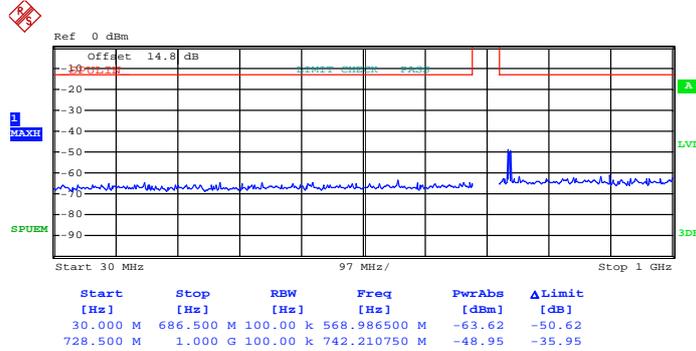


Date: 2.MAR.2013 10:00:21



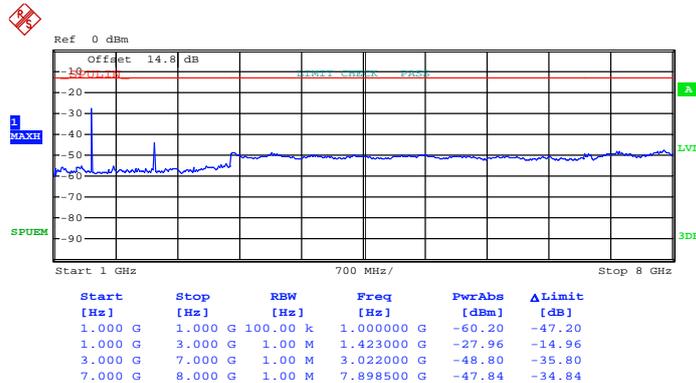
Band :	LTE Band 12	BW / Mod. :	5MHz / QPSK
Frequency :	713.5	Channel :	23155

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 2.MAR.2013 10:08:12

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)

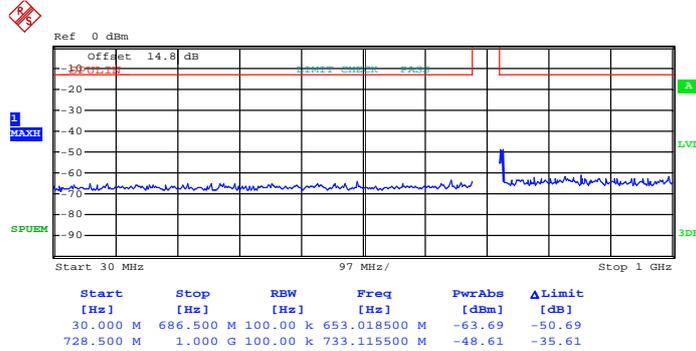


Date: 2.MAR.2013 10:07:33



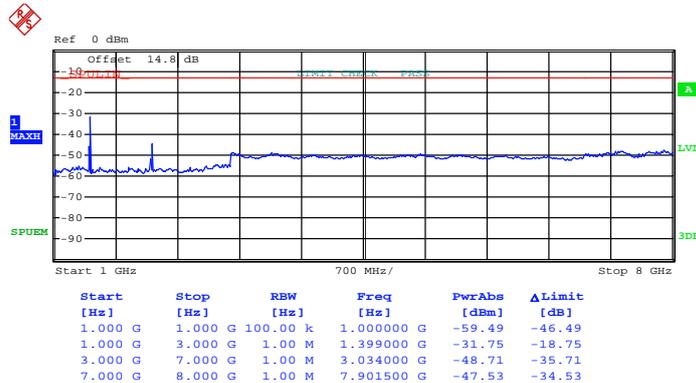
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	5MHz / 16QAM
<b>Frequency :</b>	701.5	<b>Channel :</b>	23035

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 09:51:42

**Conducted Emission Plot (1GHz ~ 8GHz) for 16-QAM (RB Size 1, RB Offset 0)**

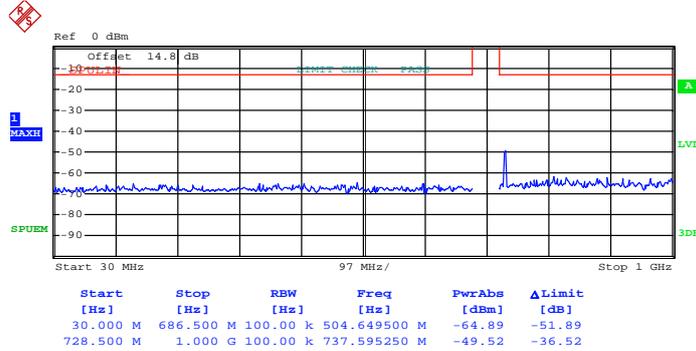


Date: 2.MAR.2013 09:52:01



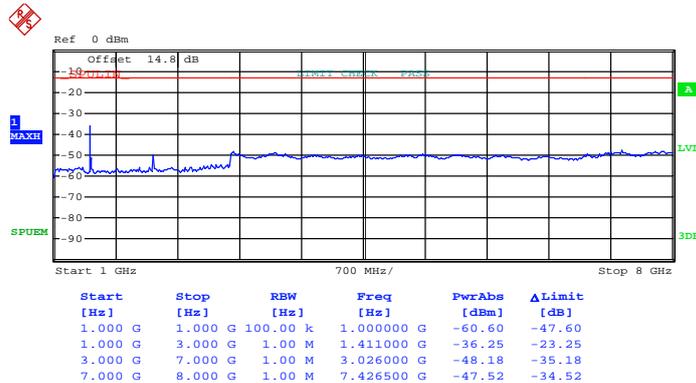
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	5MHz / 16QAM
<b>Frequency :</b>	707.5	<b>Channel :</b>	23095

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 09:59:45

**Conducted Emission Plot (1GHz ~ 8GHz) for 16-QAM (RB Size 1, RB Offset 0)**

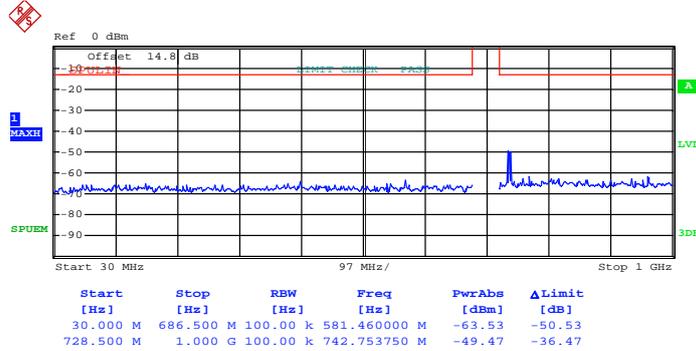


Date: 2.MAR.2013 10:00:07



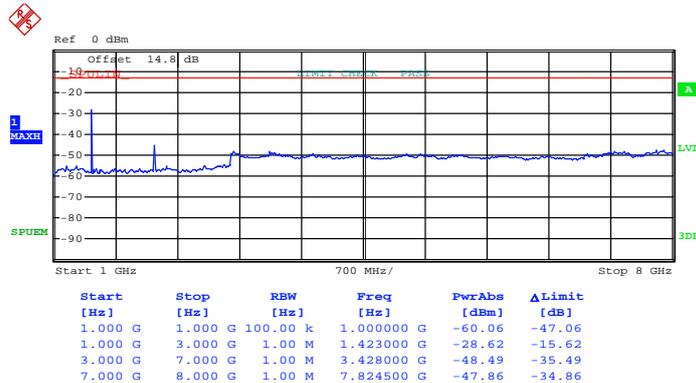
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	5MHz / 16QAM
<b>Frequency :</b>	713.5	<b>Channel :</b>	23155

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 10:08:00

**Conducted Emission Plot (1GHz ~ 8GHz) for 16-QAM (RB Size 1, RB Offset 0)**

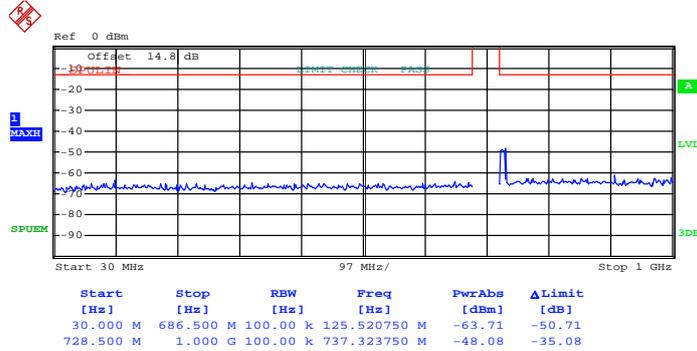


Date: 2.MAR.2013 10:07:45



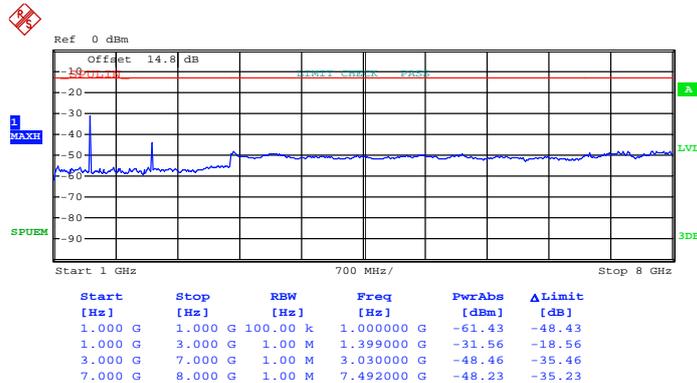
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	10MHz / QPSK
<b>Frequency :</b>	704	<b>Channel :</b>	23060

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 09:55:28

**Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)**

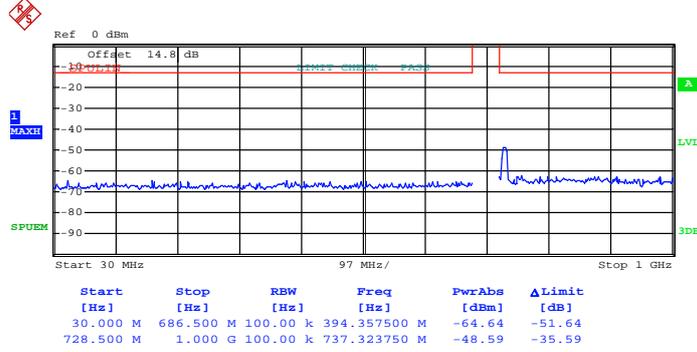


Date: 2.MAR.2013 09:53:08



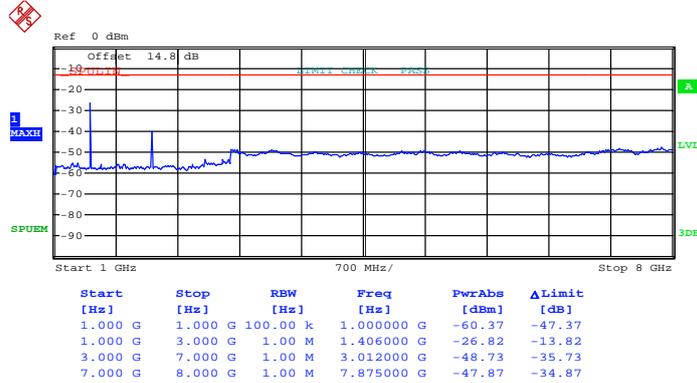
Band :	LTE Band 12	BW / Mod. :	10MHz / QPSK
Frequency :	707.5	Channel :	23095

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 2.MAR.2013 10:01:12

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)

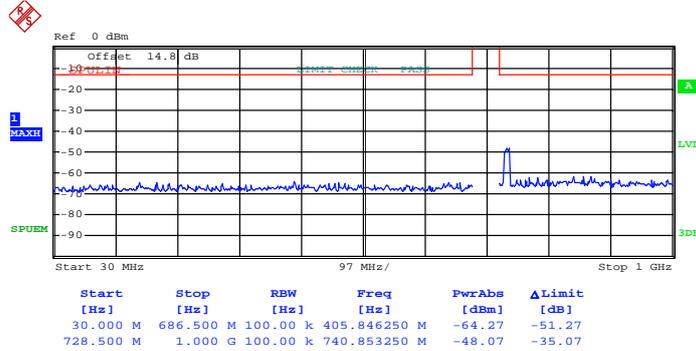


Date: 2.MAR.2013 10:02:35



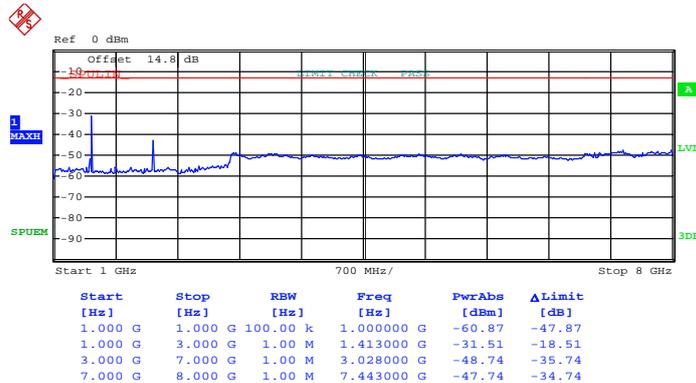
Band :	LTE Band 12	BW / Mod. :	10MHz / QPSK
Frequency :	711	Channel :	23130

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 2.MAR.2013 10:08:41

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)

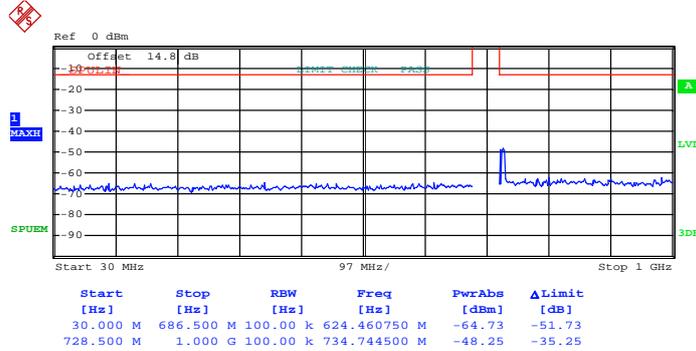


Date: 2.MAR.2013 10:09:39



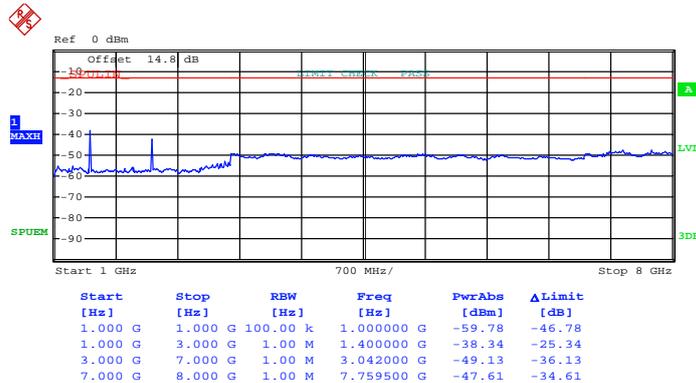
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	10MHz / 16QAM
<b>Frequency :</b>	704	<b>Channel :</b>	23060

**Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 09:55:12

**Conducted Emission Plot (1GHz ~ 8GHz) for 16-QAM (RB Size 1, RB Offset 0)**

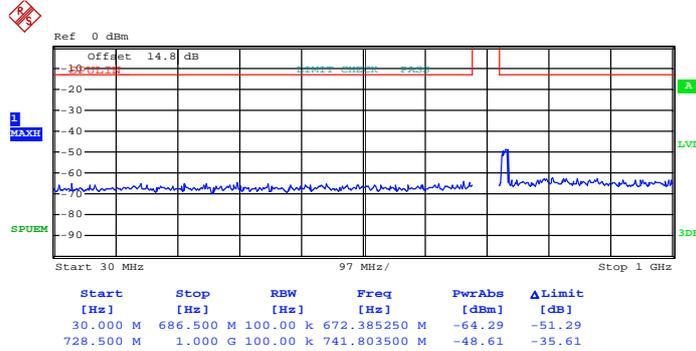


Date: 2.MAR.2013 09:54:48



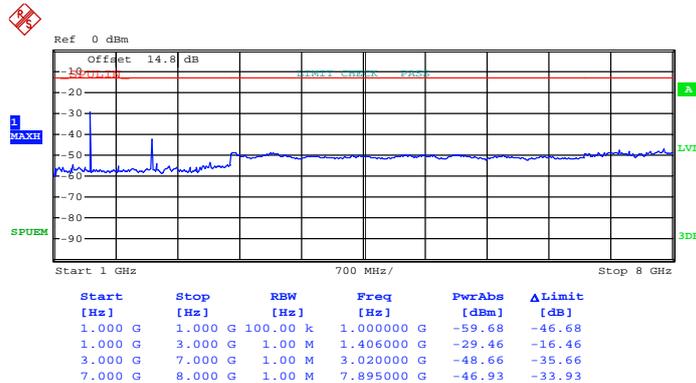
<b>Band :</b>	LTE Band 12	<b>BW / Mod. :</b>	10MHz / 16QAM
<b>Frequency :</b>	707.5	<b>Channel :</b>	23095

**Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 0)**



Date: 2.MAR.2013 10:01:36

**Conducted Emission Plot (1GHz ~ 8GHz) for  
16-QAM (RB Size 1, RB Offset 0)**

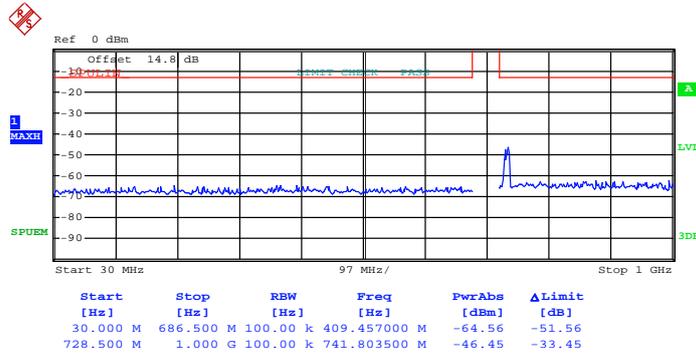


Date: 2.MAR.2013 10:02:21



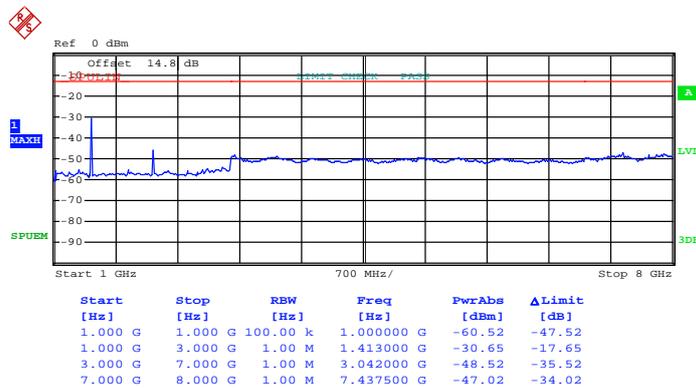
Band :	LTE Band 12	BW / Mod. :	10MHz / 16QAM
Frequency :	711	Channel :	23130

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 2.MAR.2013 10:09:01

Conducted Emission Plot (1GHz ~ 8GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 2.MAR.2013 10:09:26

## 3.6 Field Strength of Spurious Radiation Measurement

### 3.6.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 3.6.2 Measuring Instruments

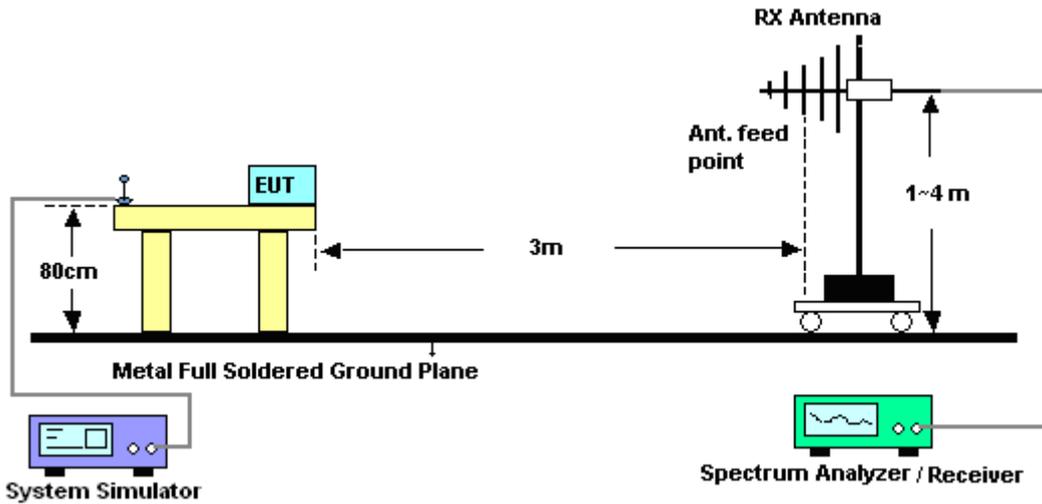
See list of measuring instruments of this test report.

### 3.6.3 Test Procedures

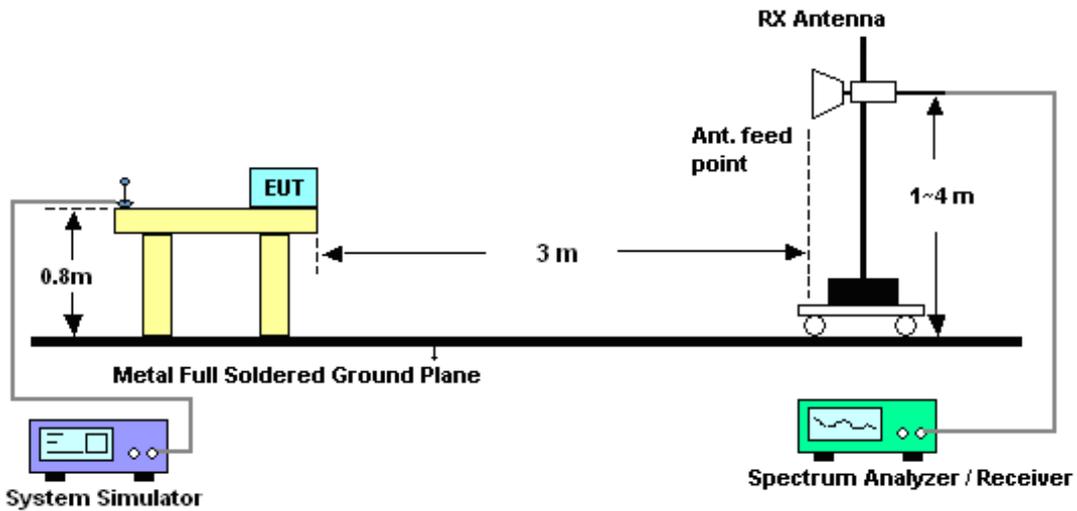
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Emission level (dBm) = output power + substitution Gain.

### 3.6.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



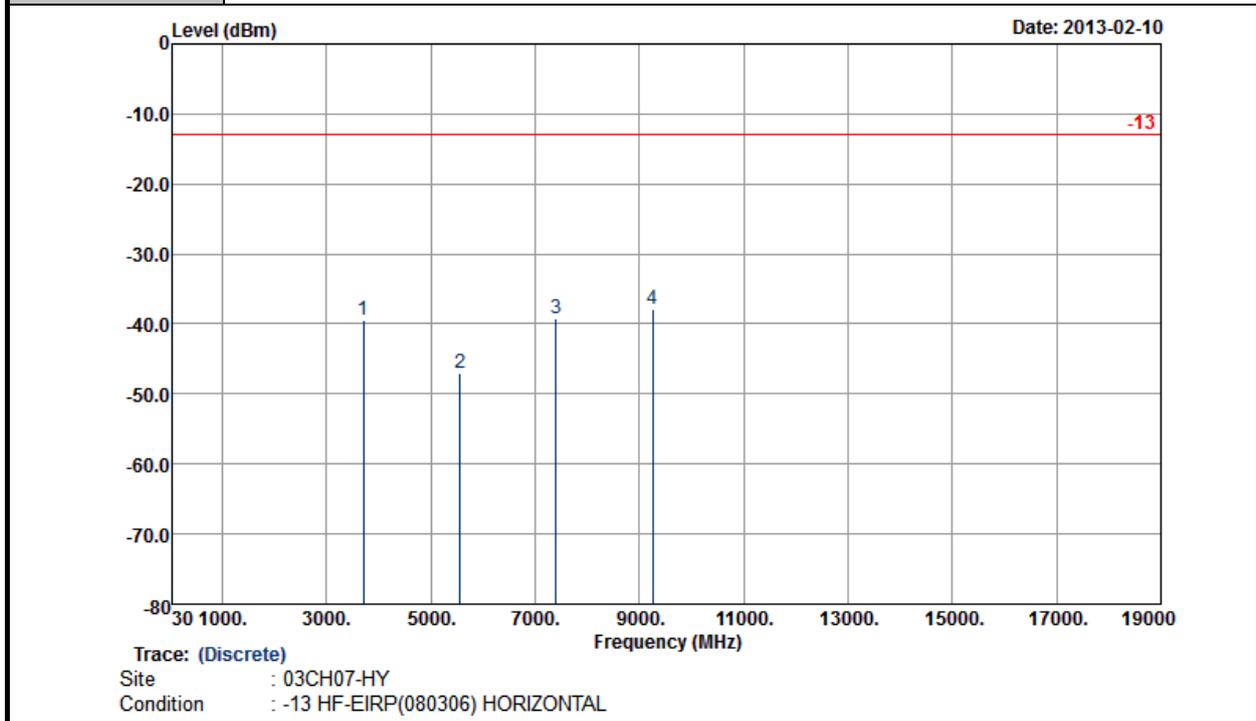
### 3.6.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



3.6.6 Test Result of Field Strength of Spurious Radiated

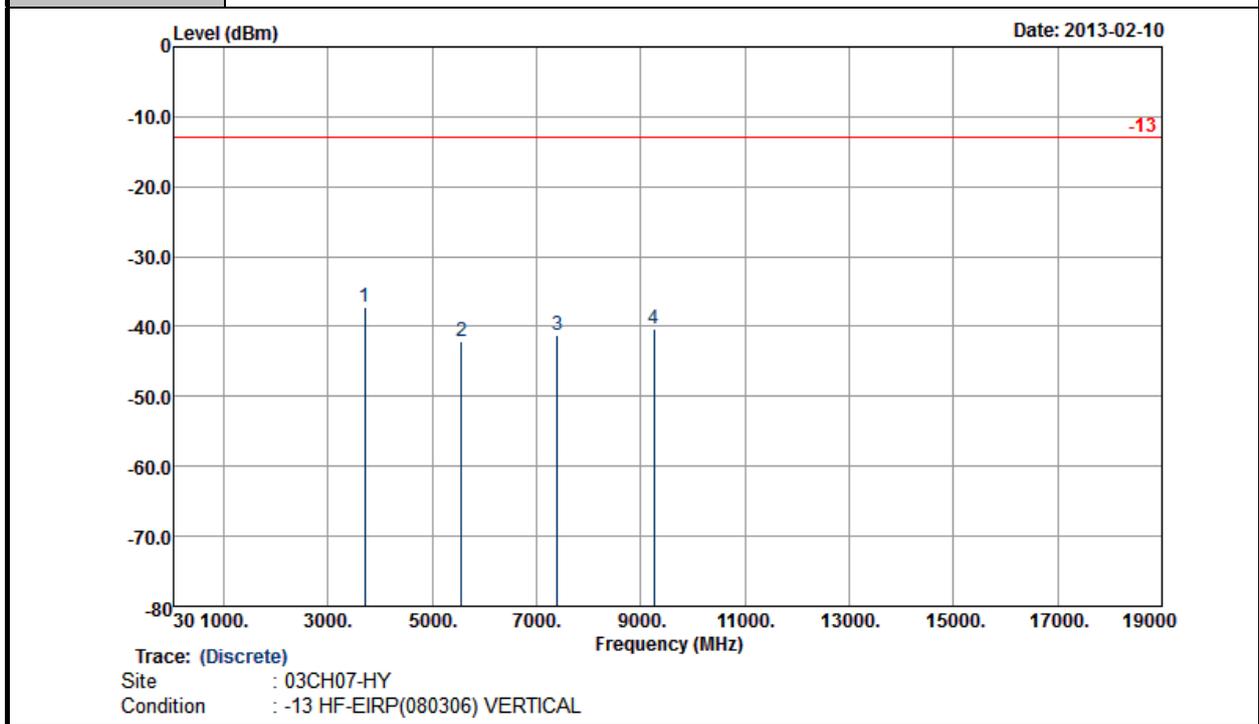
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3700	-39.43	-13	-26.43	-54.58	-45.73	2.51	8.81	H	Pass
5552	-46.97	-13	-33.97	-67.26	-54.68	2.99	10.70	H	Pass
7400	-39.28	-13	-26.28	-66.7	-47.81	3.59	12.12	H	Pass
9252	-37.83	-13	-24.83	-64	-46.93	4.1	13.20	H	Pass



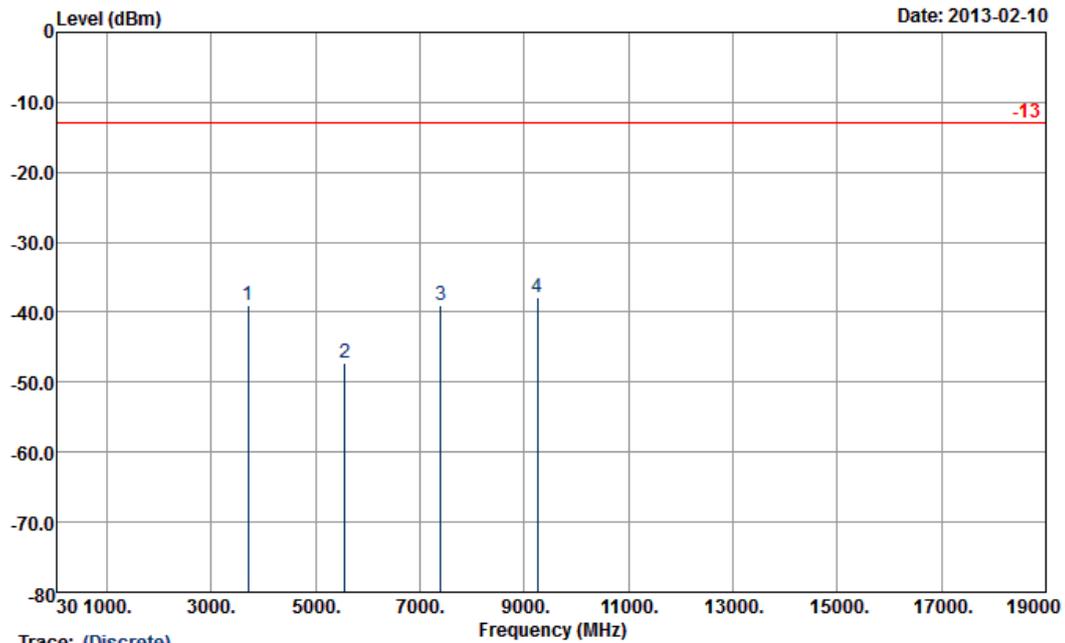
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3700	-37.12	-13	-24.12	-53.33	-43.42	2.51	8.81	V	Pass
5552	-42.06	-13	-29.06	-62.2	-49.77	2.99	10.70	V	Pass
7400	-41.33	-13	-28.33	-68.2	-49.86	3.59	12.12	V	Pass
9252	-40.44	-13	-27.44	-66.56	-49.54	4.1	13.20	V	Pass



<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

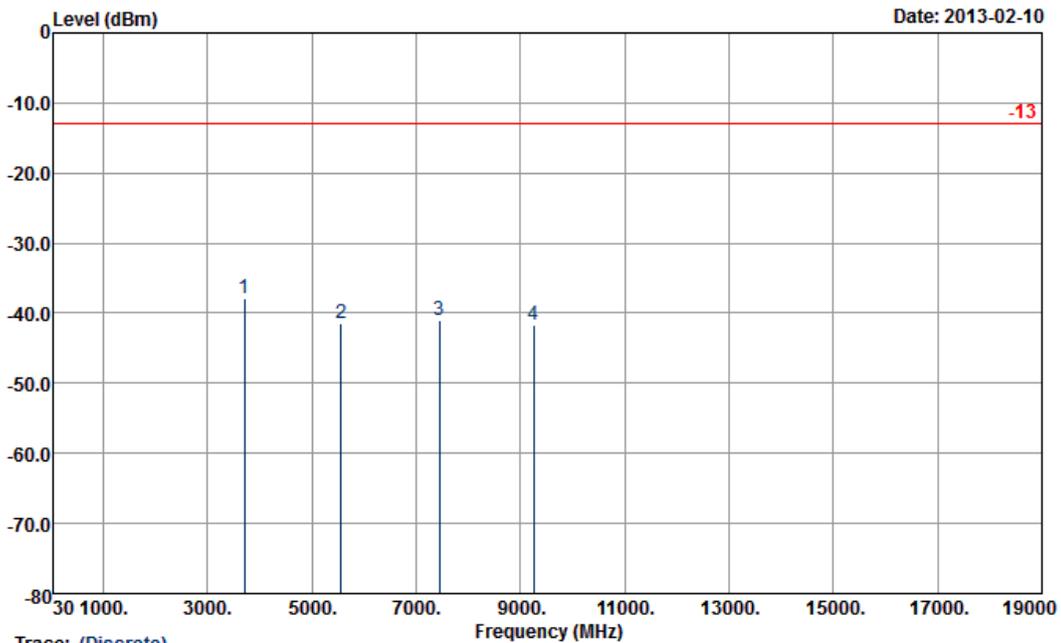


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3700	-39.01	-13	-26.01	-54.22	-45.31	2.51	8.81	H	Pass
5552	-47.18	-13	-34.18	-67.56	-54.89	2.99	10.70	H	Pass
7400	-39.04	-13	-26.04	-66.27	-47.57	3.59	12.12	H	Pass
9252	-37.96	-13	-24.96	-64.12	-47.06	4.1	13.20	H	Pass



<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

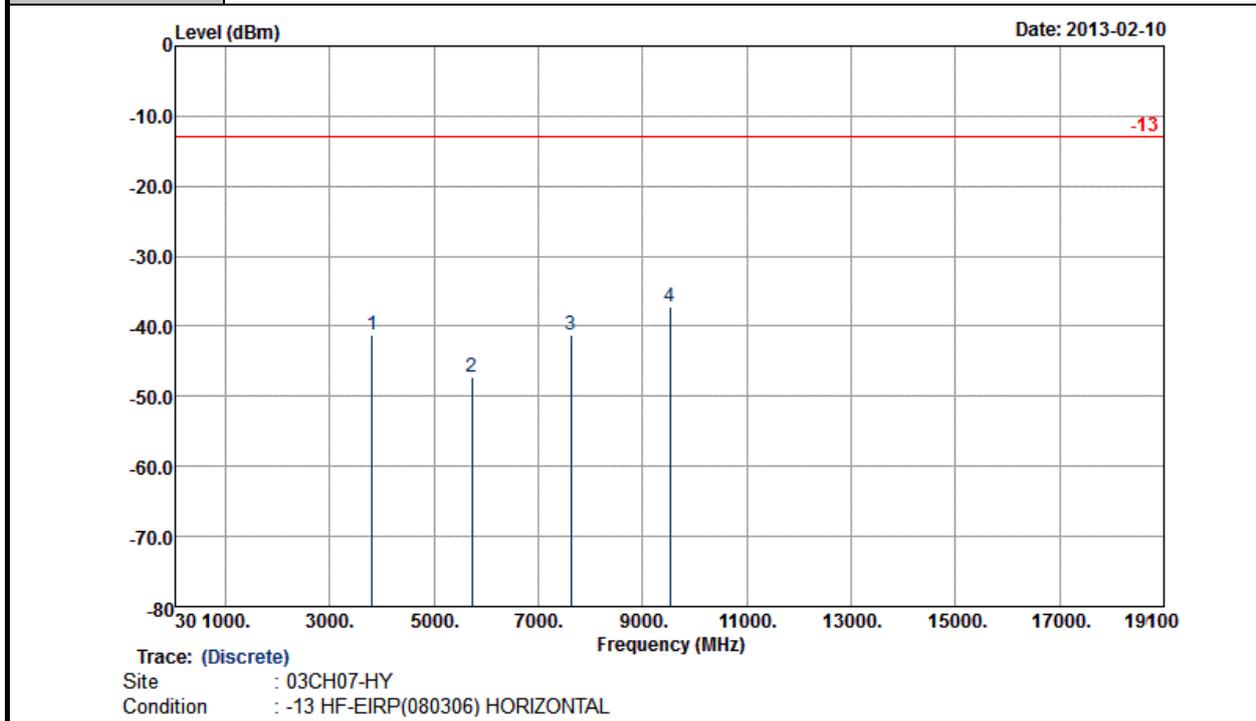


Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) VERTICAL

Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3700	-37.96	-13	-24.96	-54.19	-44.26	2.51	8.81	V	Pass
5552	-41.41	-13	-28.41	-61.58	-49.12	2.99	10.70	V	Pass
7400	-41.10	-13	-28.10	-68.18	-49.63	3.59	12.12	V	Pass
9252	-41.57	-13	-28.57	-67.55	-50.67	4.1	13.20	V	Pass



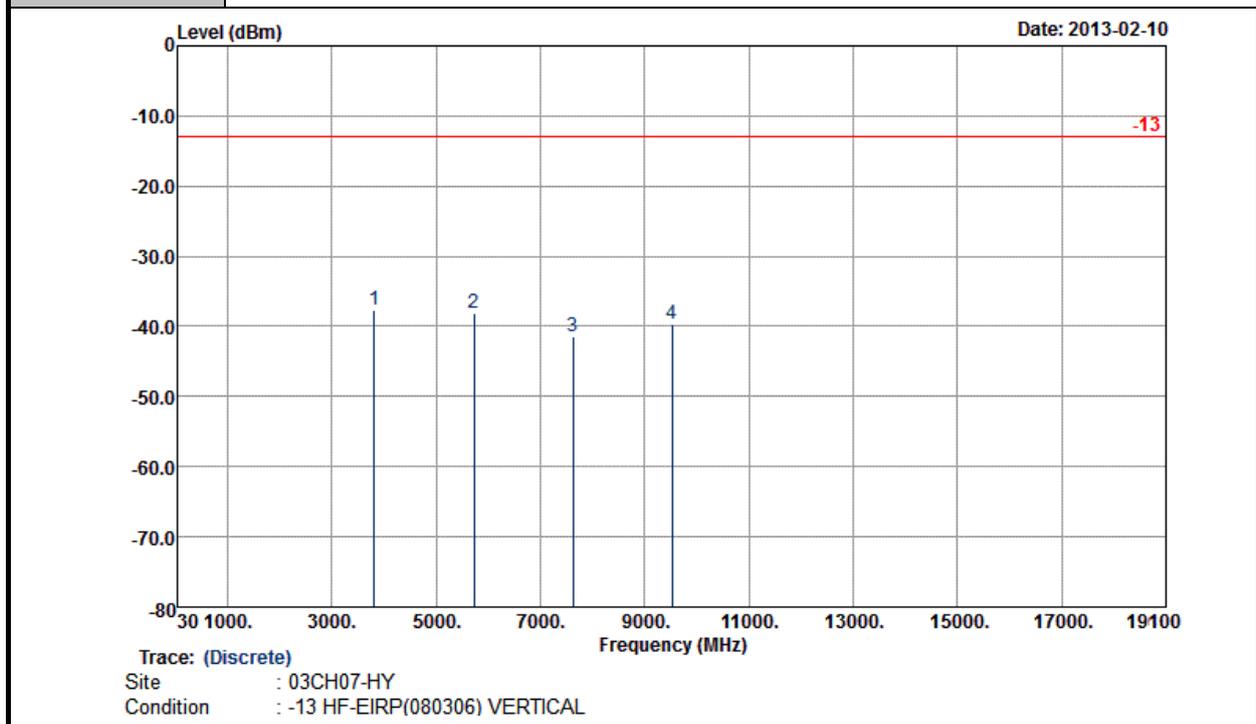
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3808	-41.23	-13	-28.23	-56.8	-47.53	2.51	8.81	H	Pass
5716	-47.33	-13	-34.33	-68.31	-55.04	2.99	10.70	H	Pass
7616	-41.33	-13	-28.33	-67.84	-49.86	3.59	12.12	H	Pass
9528	-37.25	-13	-24.25	-64.04	-46.35	4.1	13.20	H	Pass



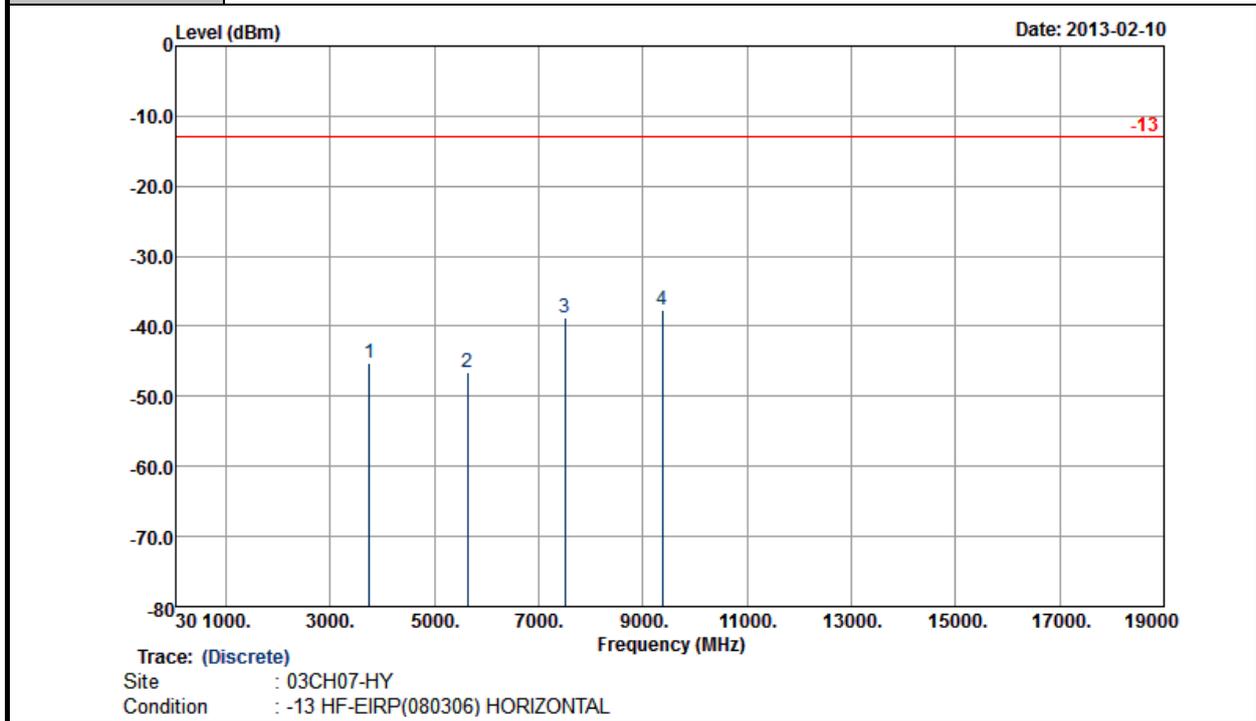
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3808	-37.77	-13	-24.77	-54.26	-44.07	2.51	8.81	V	Pass
5716	-38.20	-13	-25.20	-58.91	-45.91	2.99	10.70	V	Pass
7616	-41.50	-13	-28.50	-67.82	-50.03	3.59	12.12	V	Pass
9528	-39.69	-13	-26.69	-66.15	-48.79	4.1	13.20	V	Pass



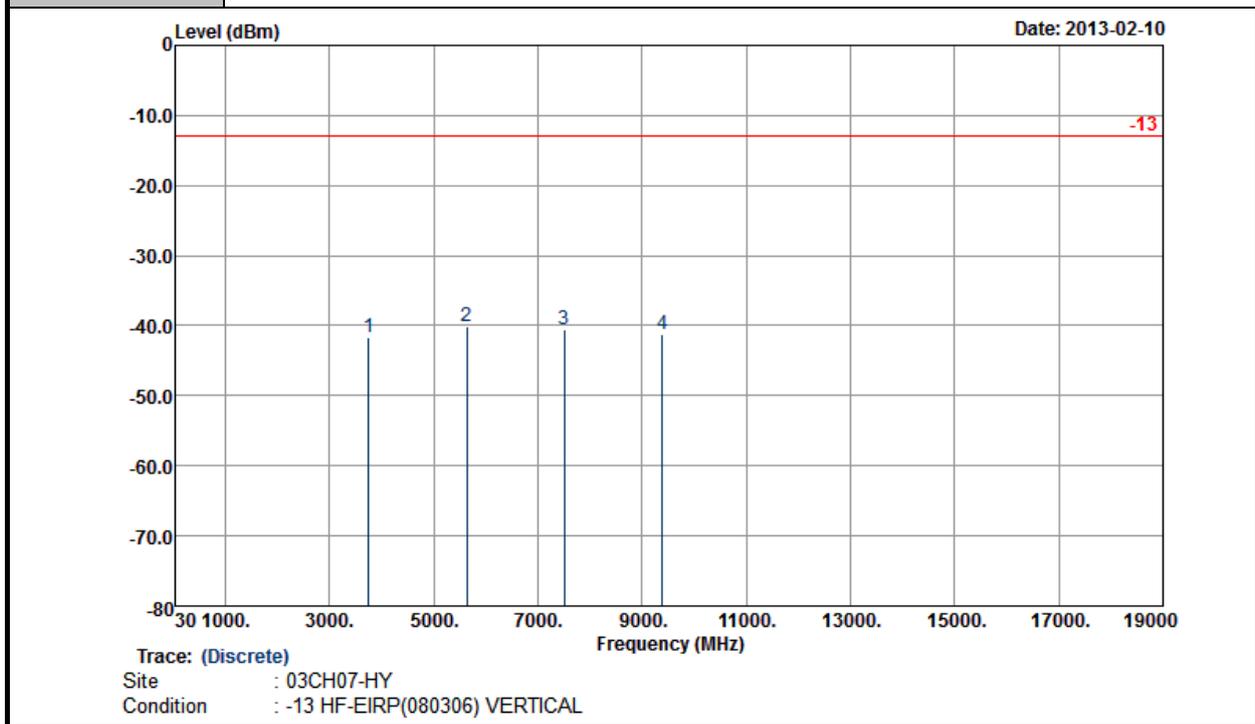
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3752	-45.16	-13	-32.16	-60.39	-51.46	2.51	8.81	H	Pass
5628	-46.61	-13	-33.61	-67.22	-54.32	2.99	10.70	H	Pass
7500	-38.74	-13	-25.74	-66.25	-47.27	3.59	12.12	H	Pass
9376	-37.69	-13	-24.69	-64.2	-46.79	4.1	13.20	H	Pass



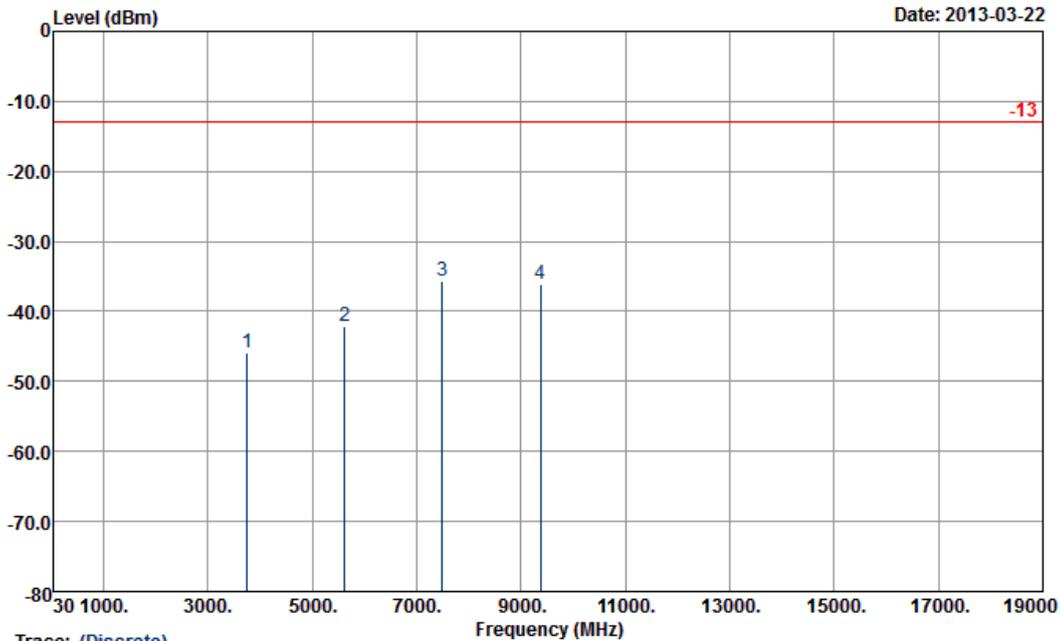
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3752	-41.76	-13	-28.76	-58.06	-48.06	2.51	8.81	V	Pass
5628	-40.20	-13	-27.20	-60.8	-47.91	2.99	10.70	V	Pass
7504	-40.54	-13	-27.54	-67.58	-49.07	3.59	12.12	V	Pass
9380	-41.13	-13	-28.13	-67.35	-50.23	4.1	13.20	V	Pass



<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	15MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

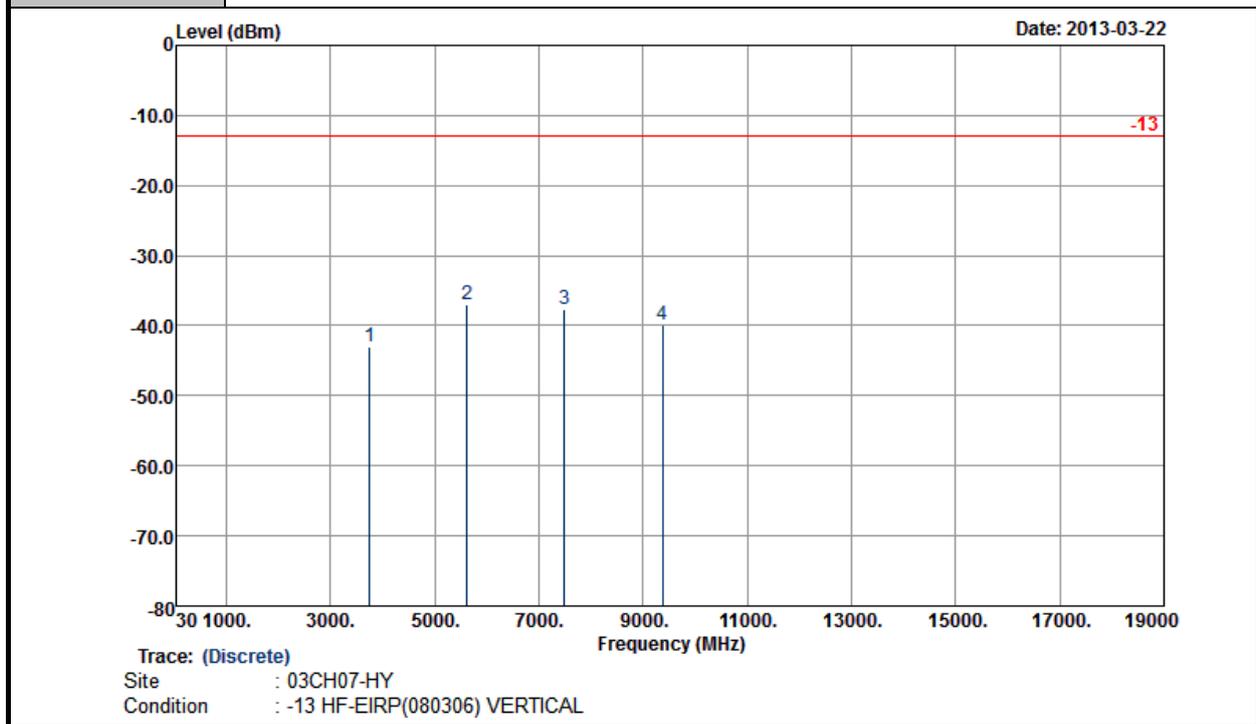


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3744	-45.96	-13	-32.96	-61.43	-52.26	2.51	8.81	H	Pass
5620	-42.06	-13	-29.06	-63.93	-49.77	2.99	10.70	H	Pass
7492	-35.73	-13	-22.73	-63.83	-44.26	3.59	12.12	H	Pass
9368	-36.08	-13	-23.08	-64.31	-45.18	4.1	13.20	H	Pass



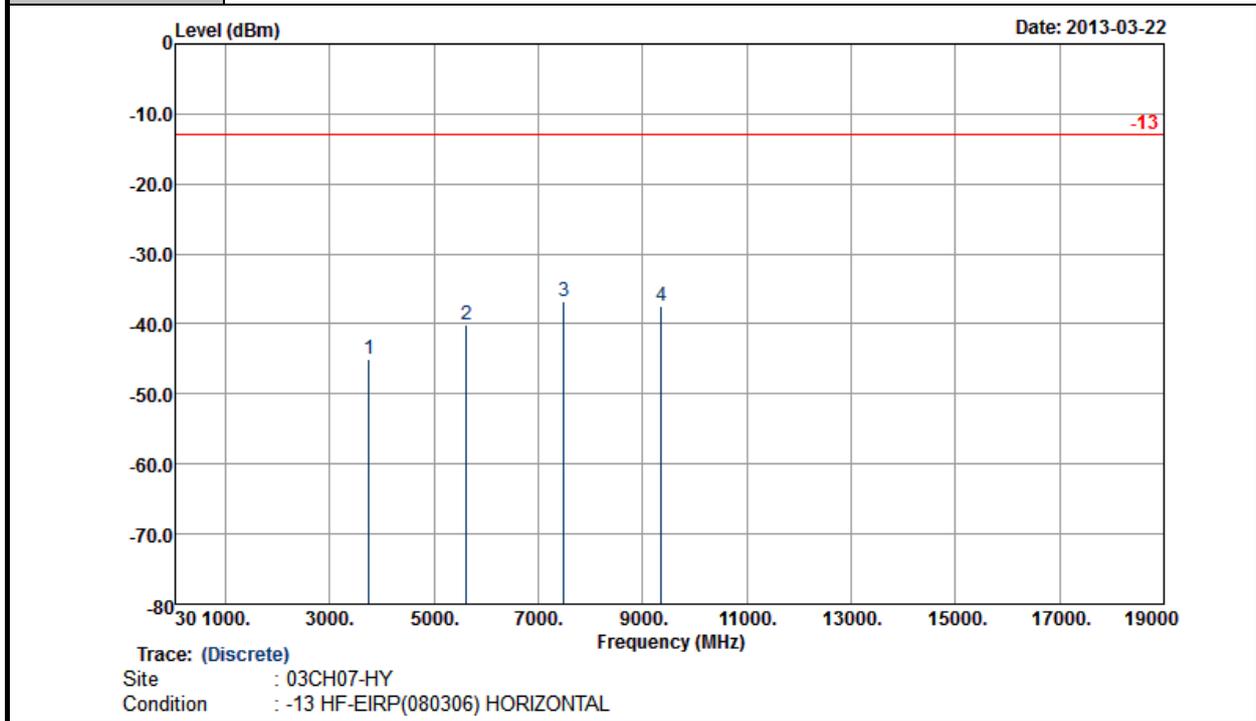
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	15MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3744	-42.96	-13	-29.96	-59.96	-49.26	2.51	8.81	V	Pass
5620	-37.06	-13	-24.06	-58.56	-44.77	2.99	10.70	V	Pass
7492	-37.73	-13	-24.73	-64.9	-46.26	3.59	12.12	V	Pass
9368	-39.86	-13	-26.86	-66.49	-48.96	4.1	13.20	V	Pass



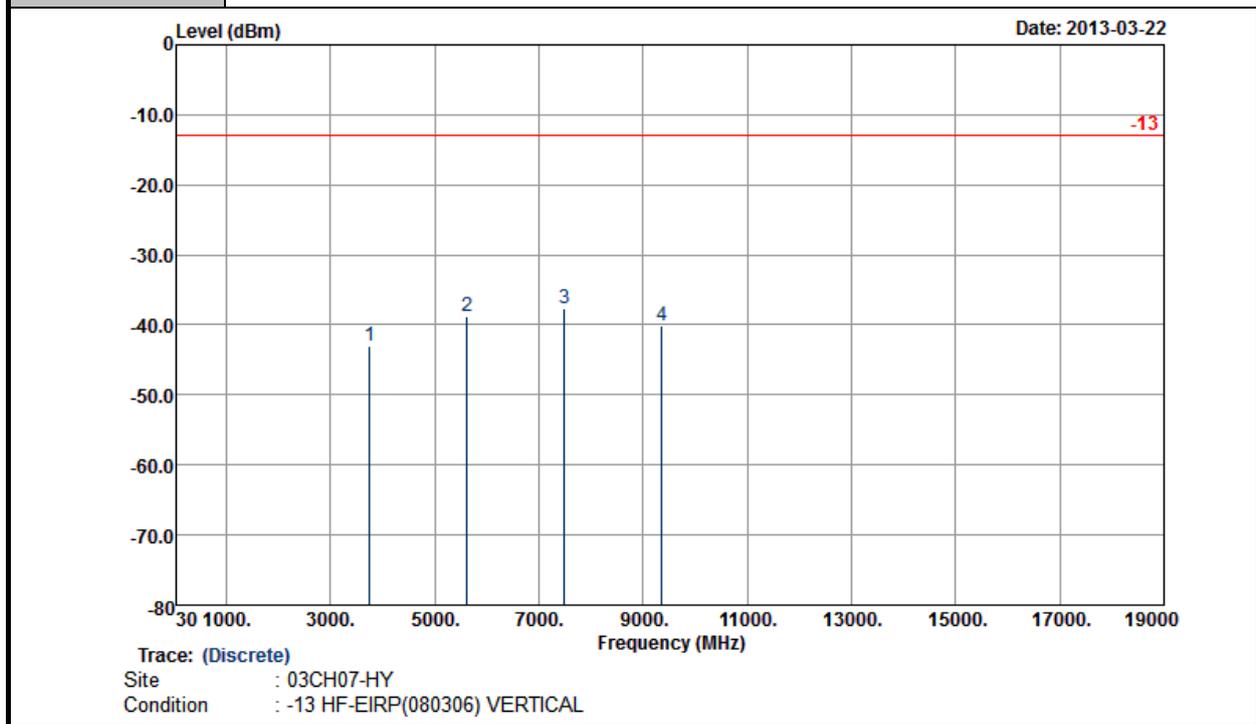
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	20MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3740	-44.96	-13	-31.96	-60.78	-51.26	2.51	8.81	H	Pass
5612	-40.09	-13	-27.09	-62.53	-47.8	2.99	10.70	H	Pass
7484	-36.72	-13	-23.72	-64.74	-45.25	3.59	12.12	H	Pass
9356	-37.37	-13	-24.37	-64.84	-46.47	4.1	13.20	H	Pass



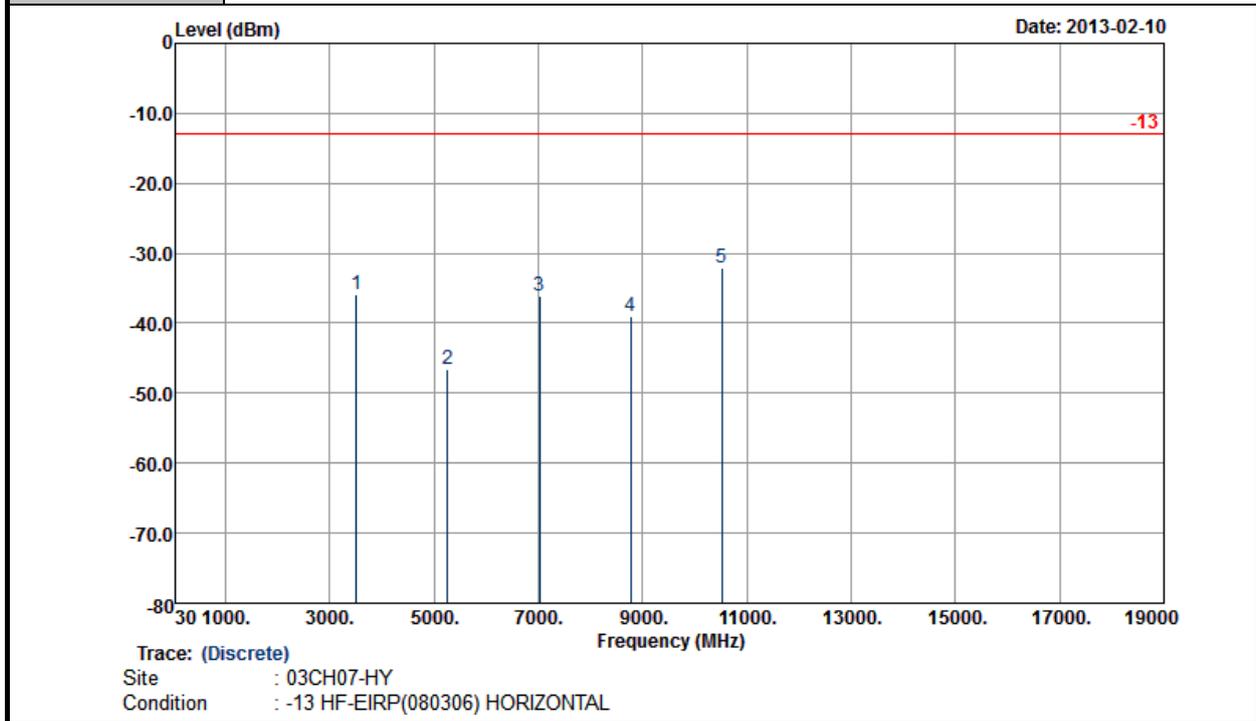
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	20MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3740	-42.96	-13	-29.96	-59.93	-49.26	2.51	8.81	V	Pass
5612	-38.76	-13	-25.76	-59.87	-46.47	2.99	10.70	V	Pass
7484	-37.72	-13	-24.72	-66.13	-46.25	3.59	12.12	V	Pass
9356	-40.16	-13	-27.16	-67.31	-49.26	4.1	13.20	V	Pass



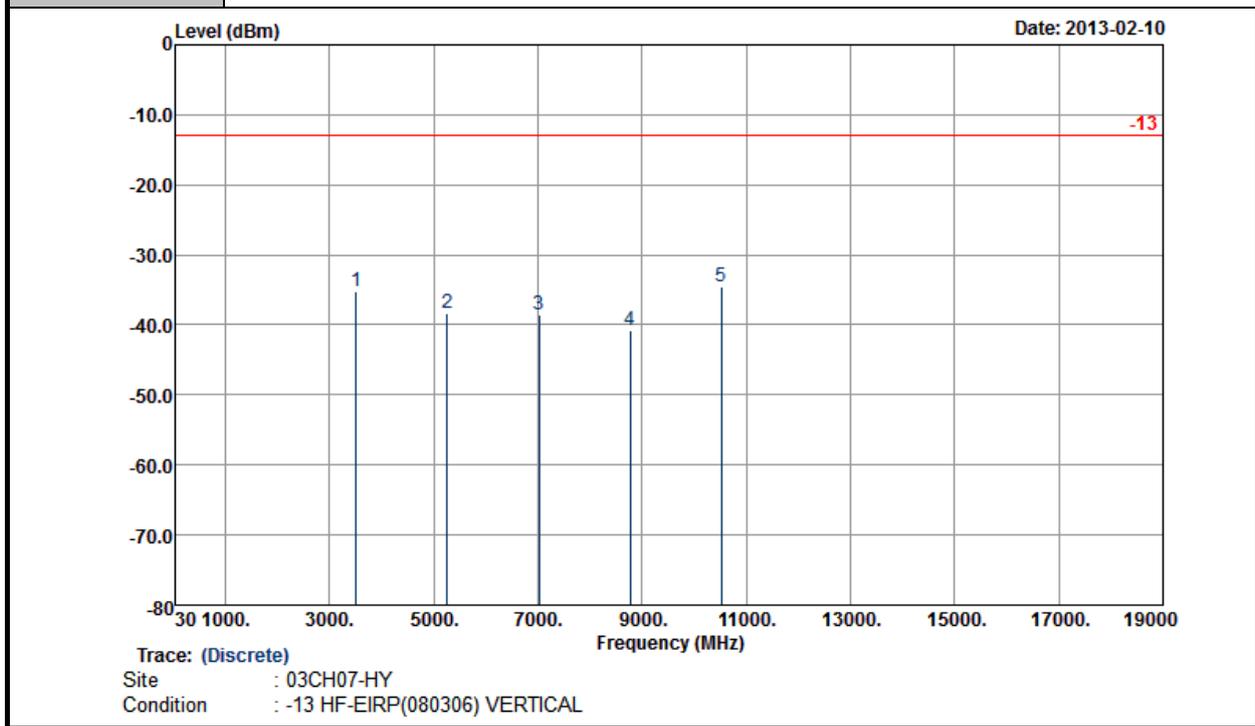
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3508	-35.77	-13	-22.77	-50.18	-37.45	4.48	8.31	H	Pass
5260	-46.55	-13	-33.55	-65.65	-49.04	5.332	9.98	H	Pass
7012	-36.08	-13	-23.08	-62.55	-39.17	6.1	11.34	H	Pass
8768	-39.09	-13	-26.09	-64.87	-41.86	8.25	13.17	H	Pass
10524	-31.99	-13	-18.99	-61.23	-34.13	8.65	12.94	H	Pass



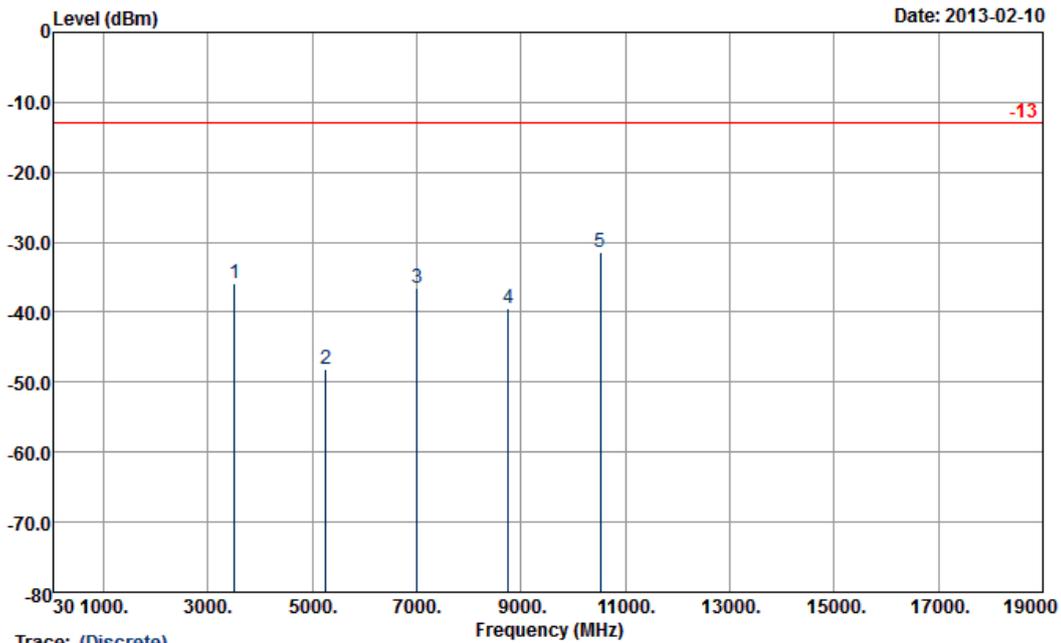
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3508	-35.11	-13	-22.11	-50.58	-36.79	4.48	8.31	V	Pass
5260	-38.43	-13	-25.43	-57.66	-40.92	5.332	9.98	V	Pass
7012	-38.62	-13	-25.62	-64.29	-41.71	6.1	11.34	V	Pass
8768	-40.71	-13	-27.71	-66.19	-43.48	8.25	13.17	V	Pass
10524	-34.49	-13	-21.49	-62.73	-36.63	8.65	12.94	V	Pass



<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

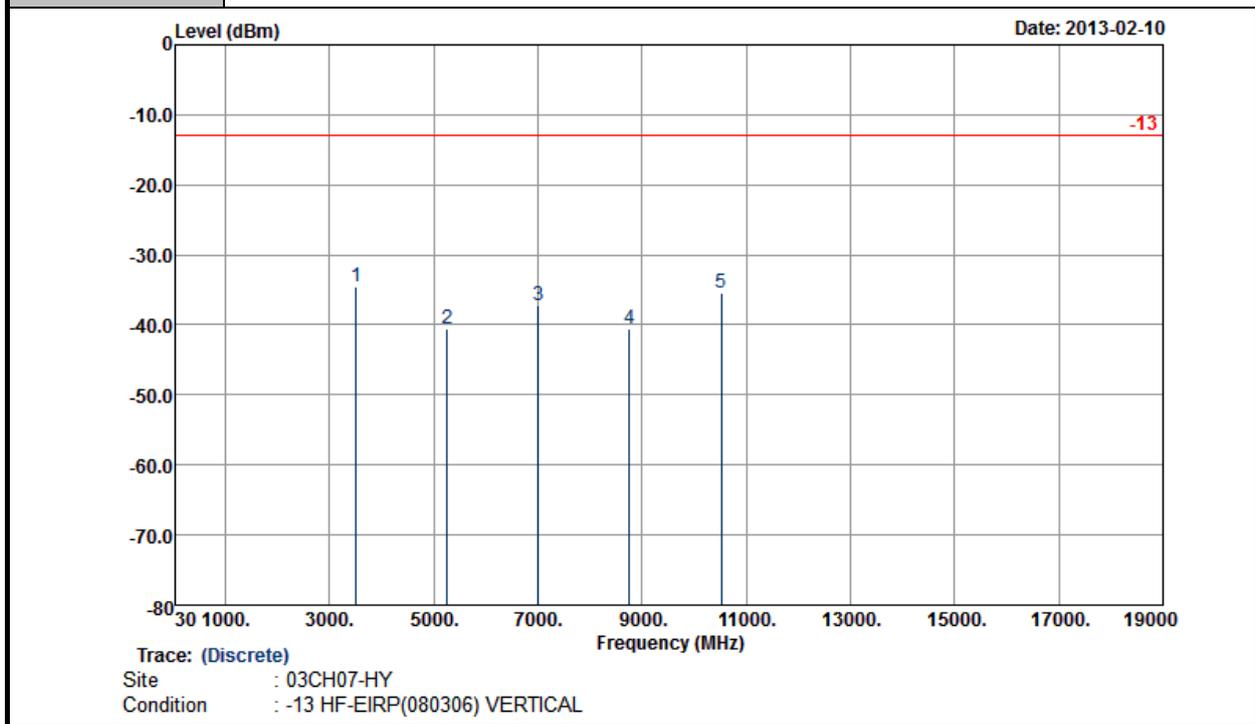


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3504	-35.77	-13	-22.77	-50.07	-37.45	4.48	8.31	H	Pass
5256	-48.14	-13	-35.14	-67.04	-50.63	5.332	9.98	H	Pass
7008	-36.48	-13	-23.48	-62.83	-39.57	6.1	11.34	H	Pass
8760	-39.44	-13	-26.44	-65.08	-42.21	8.25	13.17	H	Pass
10516	-31.44	-13	-18.44	-60.75	-33.58	8.65	12.94	H	Pass



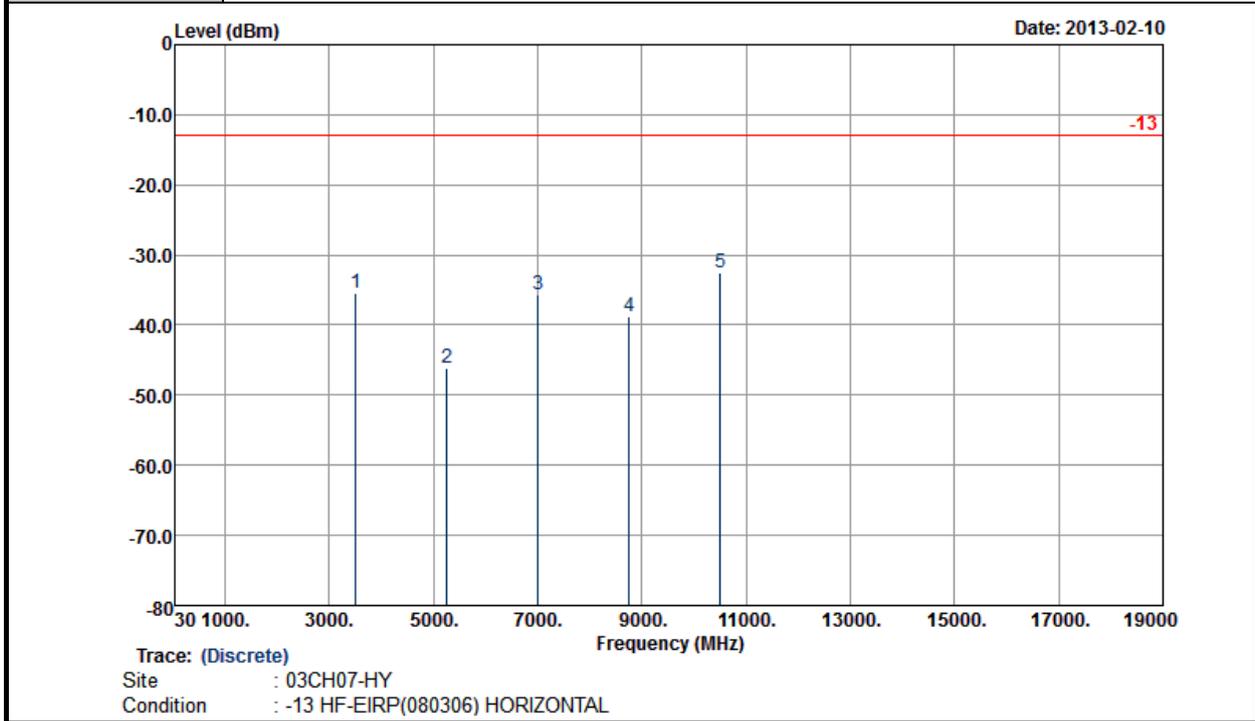
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3504	-34.54	-13	-21.54	-50.07	-36.22	4.48	8.31	V	Pass
5256	-40.47	-13	-27.47	-59.43	-42.96	5.332	9.98	V	Pass
7008	-37.20	-13	-24.20	-62.91	-40.29	6.1	11.34	V	Pass
8760	-40.64	-13	-27.64	-66.06	-43.41	8.25	13.17	V	Pass
10516	-35.40	-13	-22.40	-63.63	-37.54	8.65	12.94	V	Pass



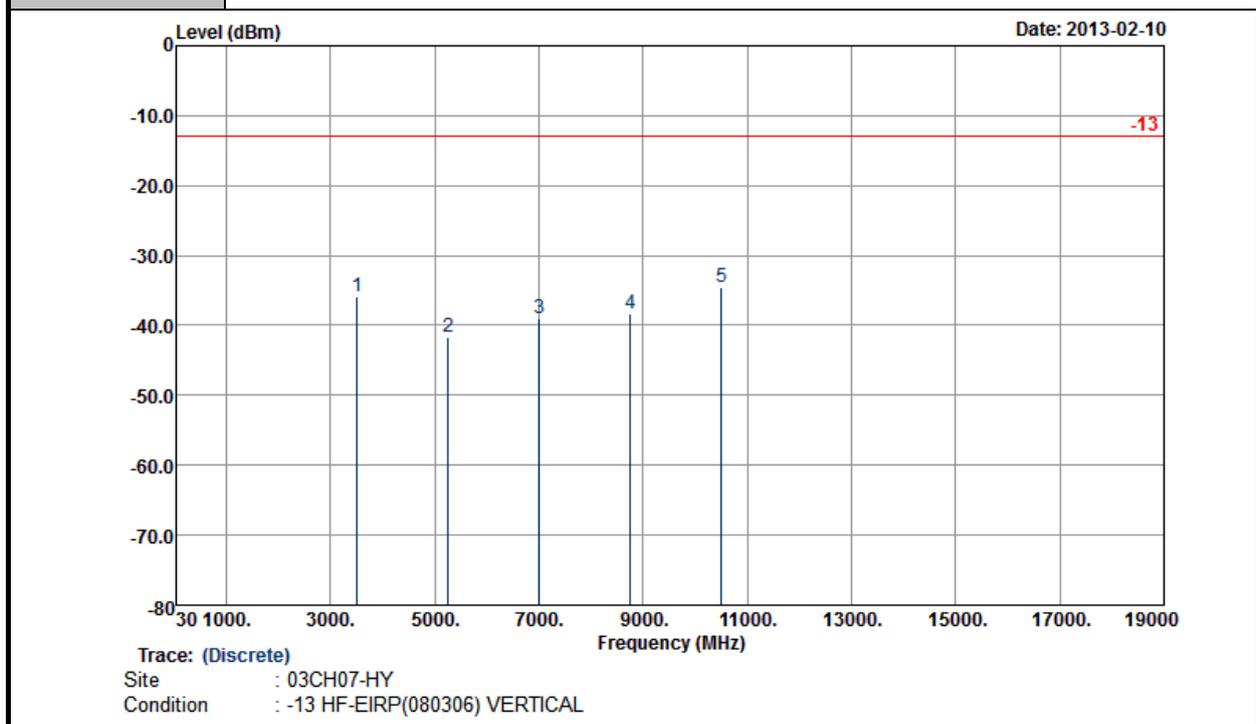
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3500	-35.37	-13	-22.37	-49.7	-37.05	4.48	8.31	H	Pass
5252	-46.02	-13	-33.02	-65.04	-48.51	5.332	9.98	H	Pass
7000	-35.74	-13	-22.74	-62.22	-38.83	6.1	11.34	H	Pass
8752	-38.79	-13	-25.79	-64.44	-41.56	8.25	13.17	H	Pass
10504	-32.45	-13	-19.45	-61.71	-34.59	8.65	12.94	H	Pass



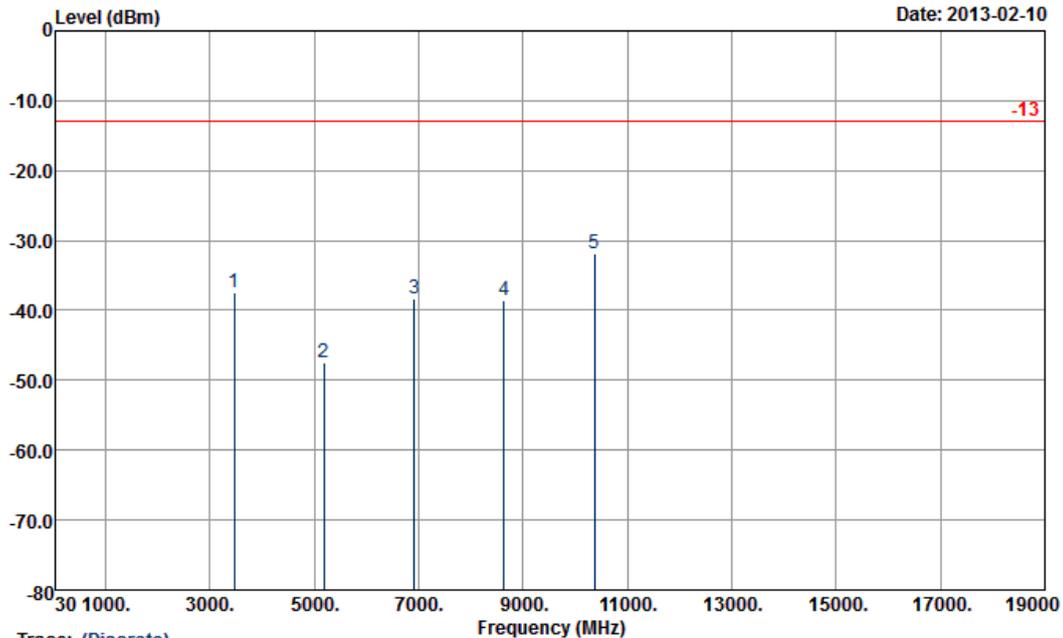
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3500	-35.79	-13	-22.79	-51.3	-37.47	4.48	8.31	V	Pass
5252	-41.63	-13	-28.63	-60.67	-44.12	5.332	9.98	V	Pass
7000	-39.03	-13	-26.03	-64.74	-42.12	6.1	11.34	V	Pass
8752	-38.41	-13	-25.41	-63.69	-41.18	8.25	13.17	V	Pass
10504	-34.44	-13	-21.44	-62.75	-36.58	8.65	12.94	V	Pass



<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

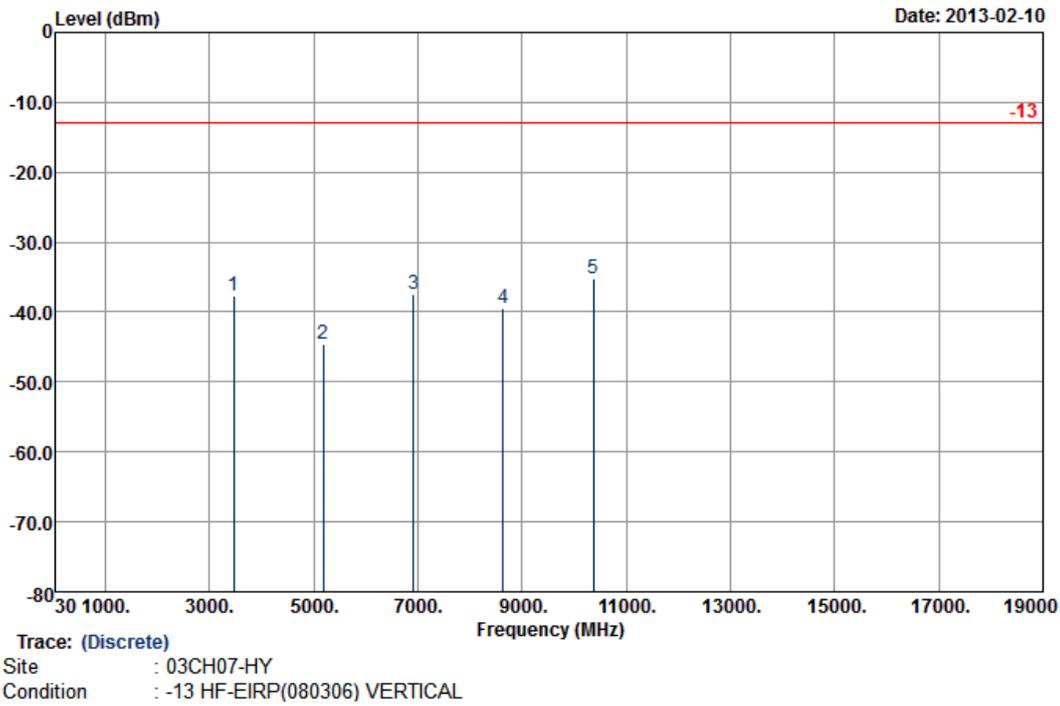


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3456	-37.43	-13	-24.43	-51.66	-39.11	4.48	8.31	H	Pass
5184	-47.57	-13	-34.57	-66.36	-50.06	5.332	9.98	H	Pass
6916	-38.38	-13	-25.38	-64.38	-41.47	6.1	11.34	H	Pass
8640	-38.62	-13	-25.62	-64.22	-41.39	8.25	13.17	H	Pass
10372	-31.94	-13	-18.94	-60.99	-34.08	8.65	12.94	H	Pass



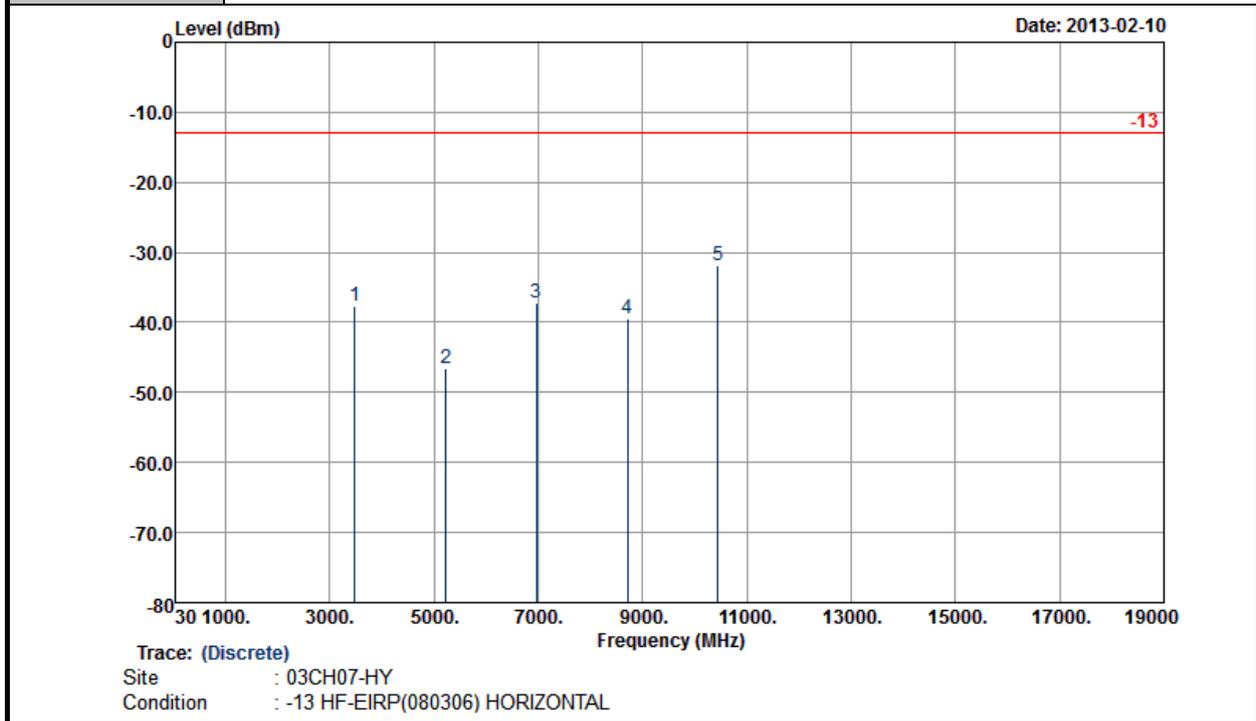
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3456	-37.74	-13	-24.74	-53.26	-39.42	4.48	8.31	V	Pass
5184	-44.65	-13	-31.65	-63.32	-47.14	5.332	9.98	V	Pass
6916	-37.47	-13	-24.47	-62.84	-40.56	6.1	11.34	V	Pass
8640	-39.41	-13	-26.41	-64.81	-42.18	8.25	13.17	V	Pass
10368	-35.10	-13	-22.10	-63.27	-37.24	8.65	12.94	V	Pass



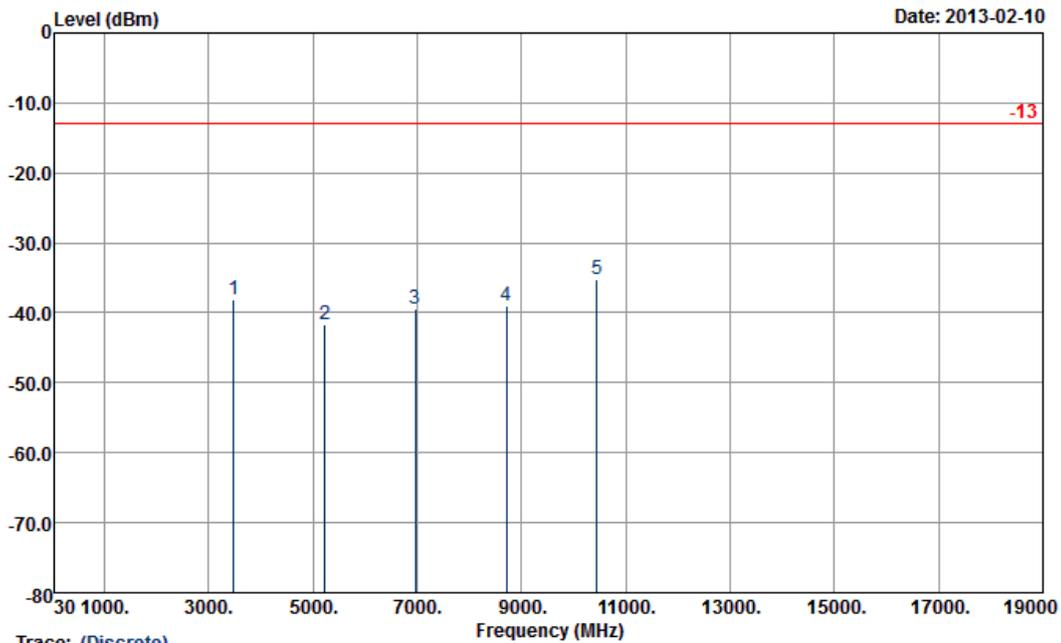
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	15MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3480	-37.58	-13	-24.58	-51.88	-39.26	4.48	8.31	H	Pass
5224	-46.64	-13	-33.64	-65.32	-49.13	5.332	9.98	H	Pass
6964	-37.28	-13	-24.28	-63.5	-40.37	6.1	11.34	H	Pass
8704	-39.37	-13	-26.37	-64.93	-42.14	8.25	13.17	H	Pass
10448	-31.92	-13	-18.92	-61.19	-34.06	8.65	12.94	H	Pass



Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	15MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Eric Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

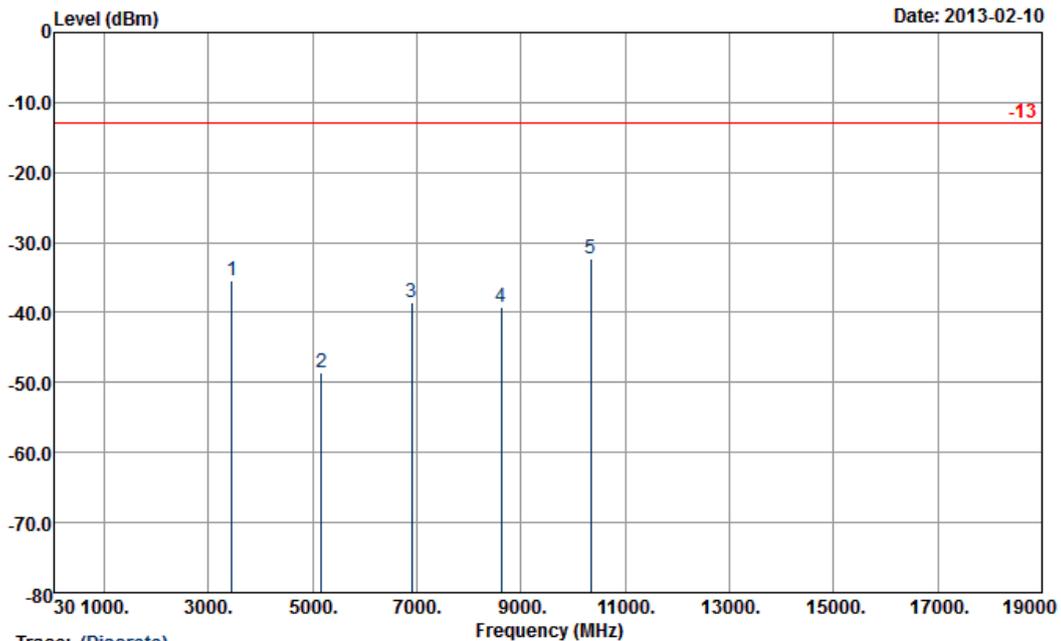


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) VERTICAL

Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3480	-38.08	-13	-25.08	-53.59	-39.76	4.48	8.31	V	Pass
5224	-41.59	-13	-28.59	-60.35	-44.08	5.332	9.98	V	Pass
6964	-39.48	-13	-26.48	-65.02	-42.57	6.1	11.34	V	Pass
8704	-39.02	-13	-26.02	-64.26	-41.79	8.25	13.17	V	Pass
10448	-35.14	-13	-22.14	-63.38	-37.28	8.65	12.94	V	Pass



<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	20MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

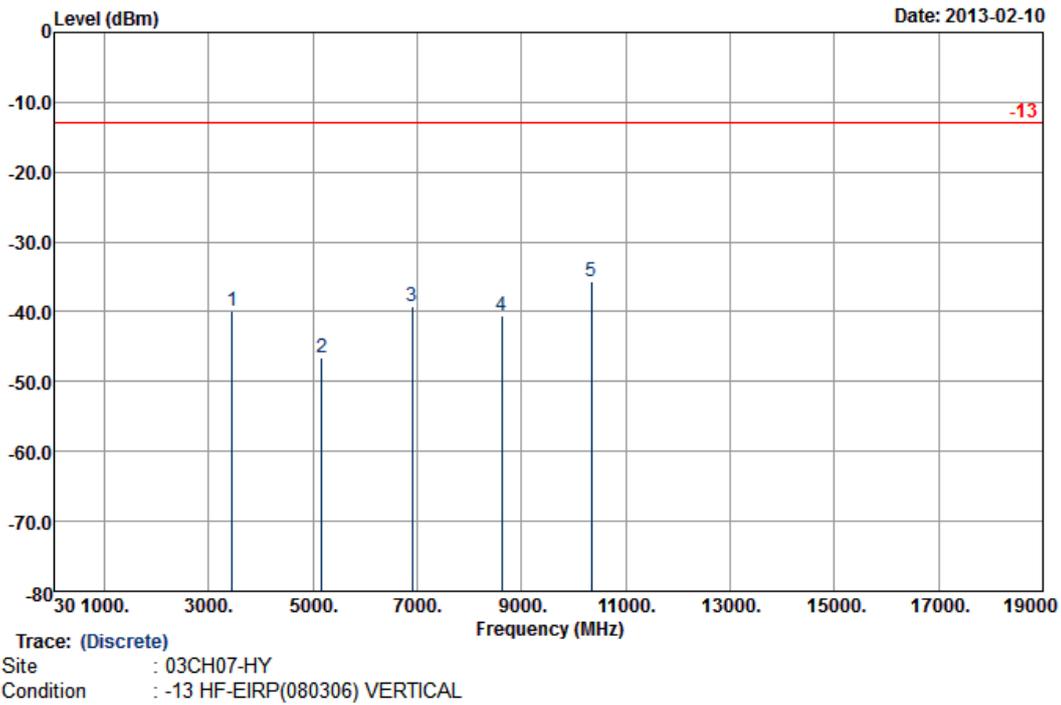


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3448	-35.46	-13	-22.46	-49.86	-37.14	4.48	8.31	H	Pass
5172	-48.67	-13	-35.67	-67.27	-51.16	5.332	9.98	H	Pass
6896	-38.48	-13	-25.48	-64.42	-41.57	6.1	11.34	H	Pass
8616	-39.27	-13	-26.27	-64.72	-42.04	8.25	13.17	H	Pass
10344	-32.21	-13	-19.21	-61.38	-34.35	8.65	12.94	H	Pass



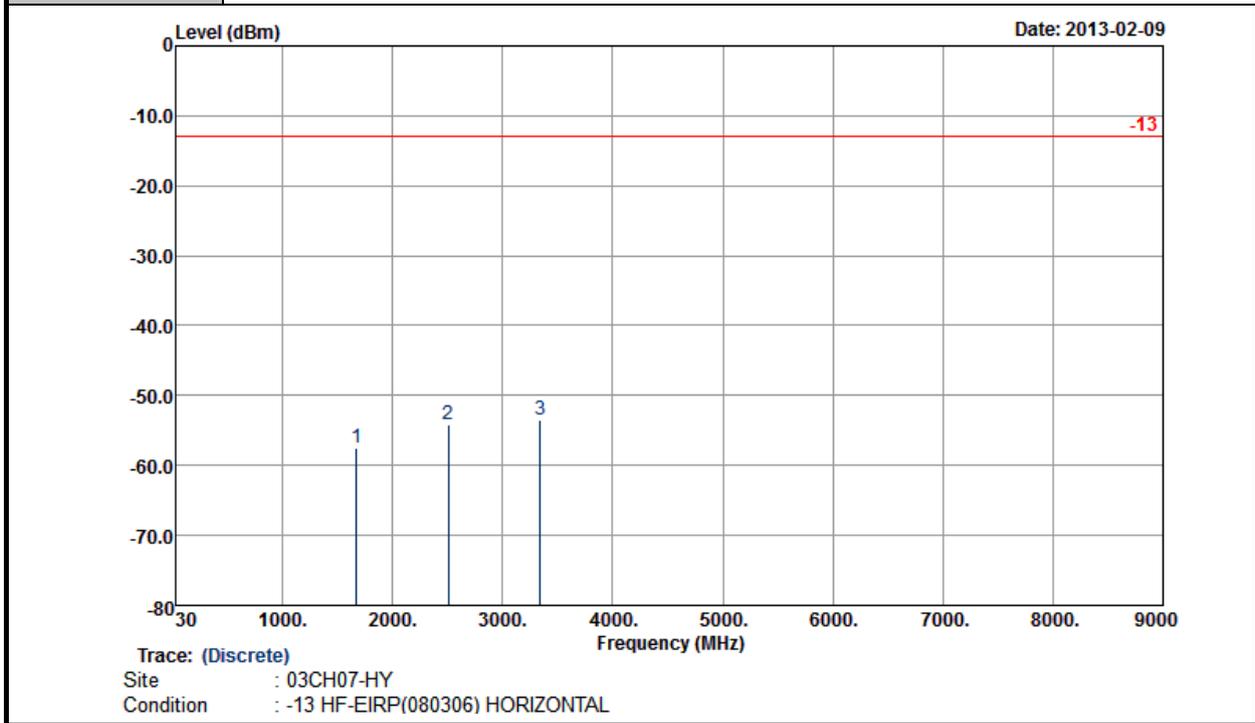
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	20MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3444	-39.96	-13	-26.96	-55.56	-41.64	4.48	8.31	V	Pass
5172	-46.57	-13	-33.57	-65.21	-49.06	5.332	9.98	V	Pass
6896	-39.32	-13	-26.32	-64.58	-42.41	6.1	11.34	V	Pass
8620	-40.62	-13	-27.62	-65.89	-43.39	8.25	13.17	V	Pass
10344	-35.62	-13	-22.62	-63.69	-37.76	8.65	12.94	V	Pass



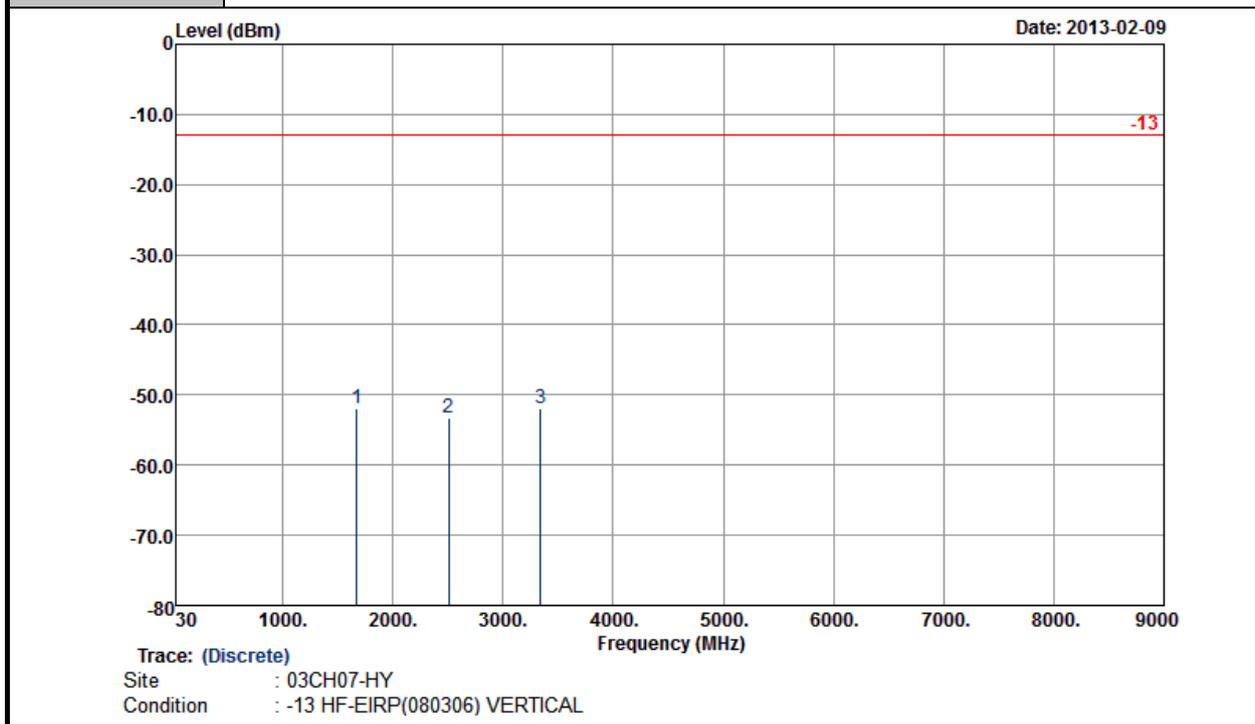
<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1672	-57.51	-13	-44.51	-66.59	-59.23	1.62	5.49	H	Pass
2509	-54.17	-13	-41.17	-67.55	-56.14	2.1	6.22	H	Pass
3343	-53.58	-13	-40.58	-67.09	-56.47	3.03	8.07	H	Pass



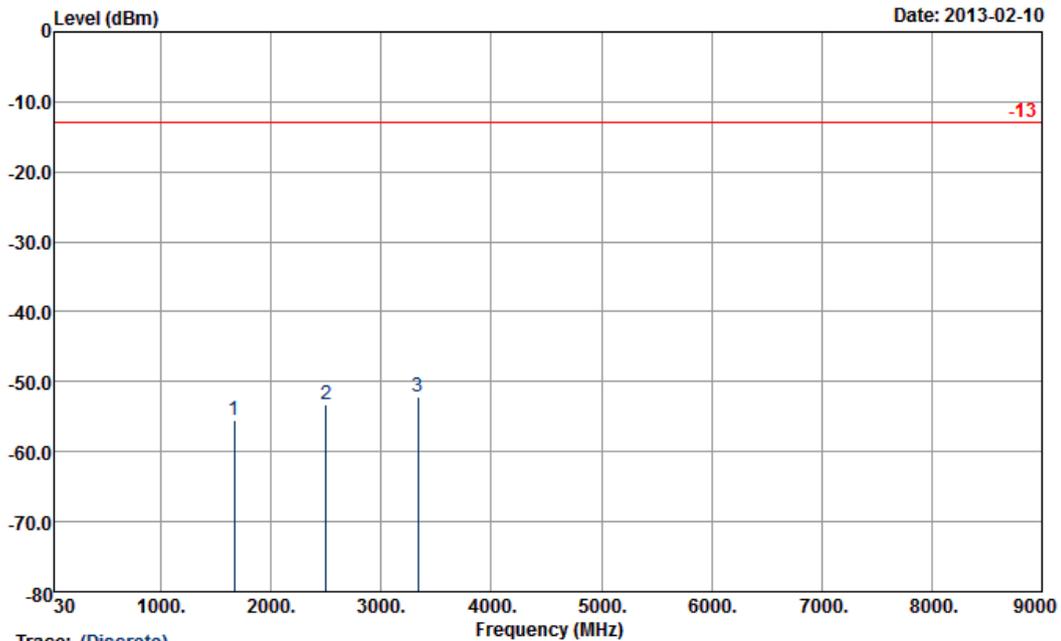
<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1672	-51.86	-13	-38.86	-62.96	-53.58	1.62	5.49	V	Pass
2509	-53.37	-13	-40.37	-67.32	-55.34	2.1	6.22	V	Pass
3343	-51.97	-13	-38.97	-67.39	-54.86	3.03	8.07	V	Pass



<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

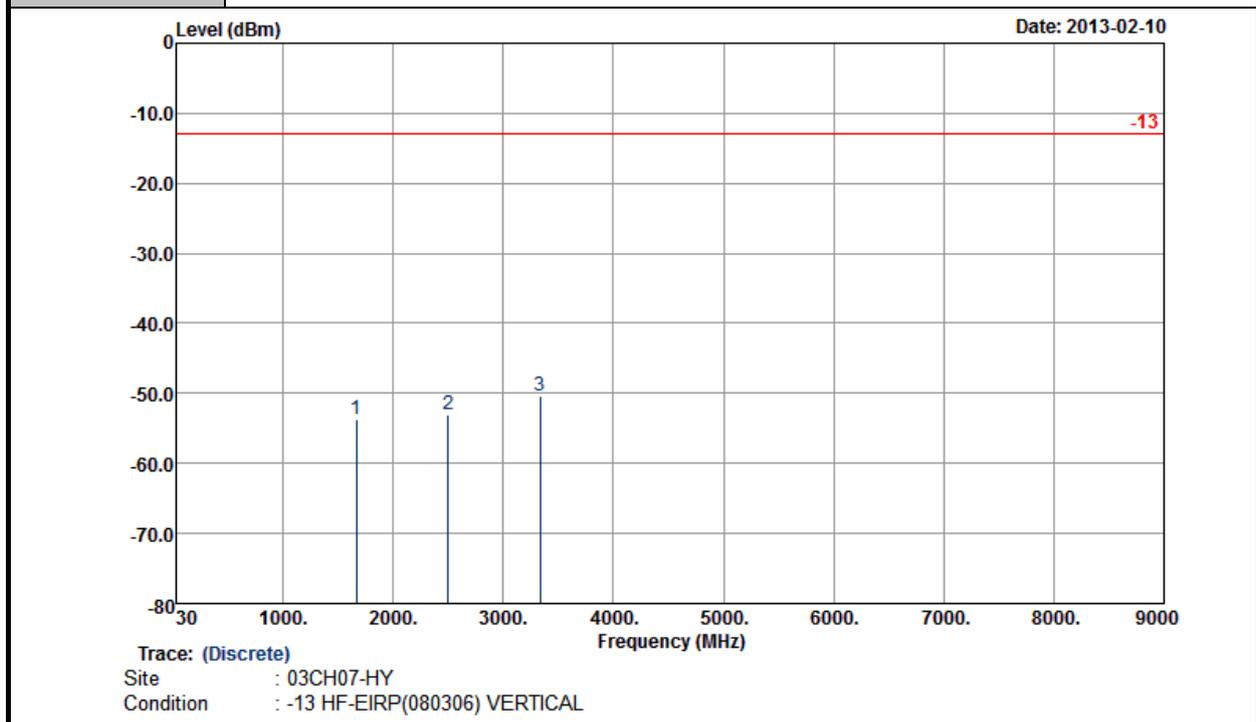


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1669	-55.40	-13	-42.40	-64.25	-57.12	1.62	5.49	H	Pass
2503	-53.20	-13	-40.20	-66.54	-55.17	2.1	6.22	H	Pass
3337	-52.05	-13	-39.05	-66.2	-54.94	3.03	8.07	H	Pass



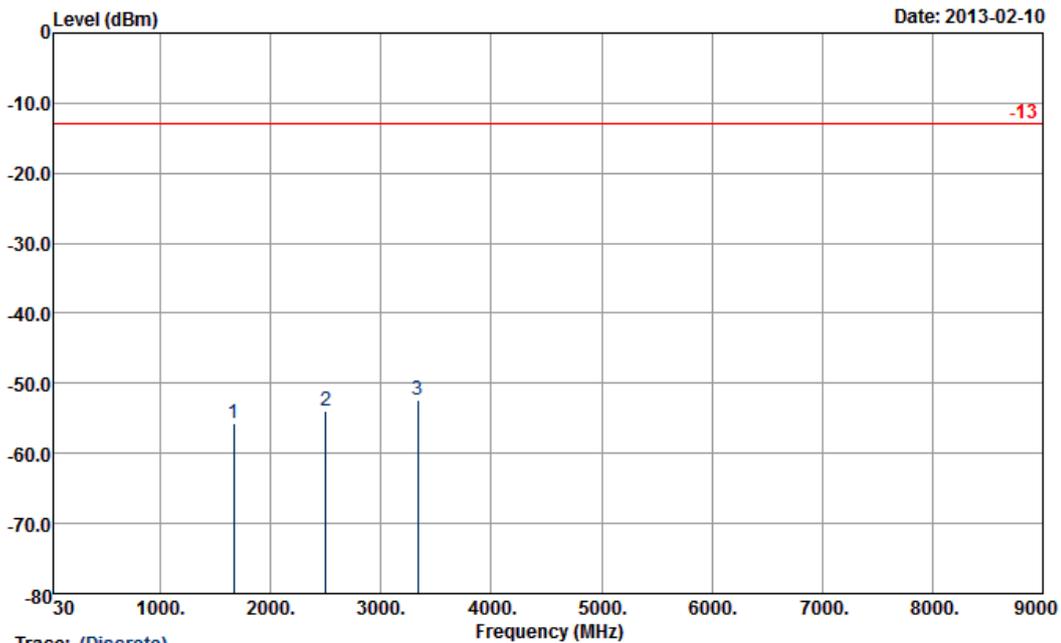
Band :	LTE Band 5	Temperature :	22~24°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Eric Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1669	-53.74	-13	-40.74	-64.79	-55.46	1.62	5.49	V	Pass
2503	-53.11	-13	-40.11	-66.71	-55.08	2.1	6.22	V	Pass
3337	-50.45	-13	-37.45	-66.05	-53.34	3.03	8.07	V	Pass



<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

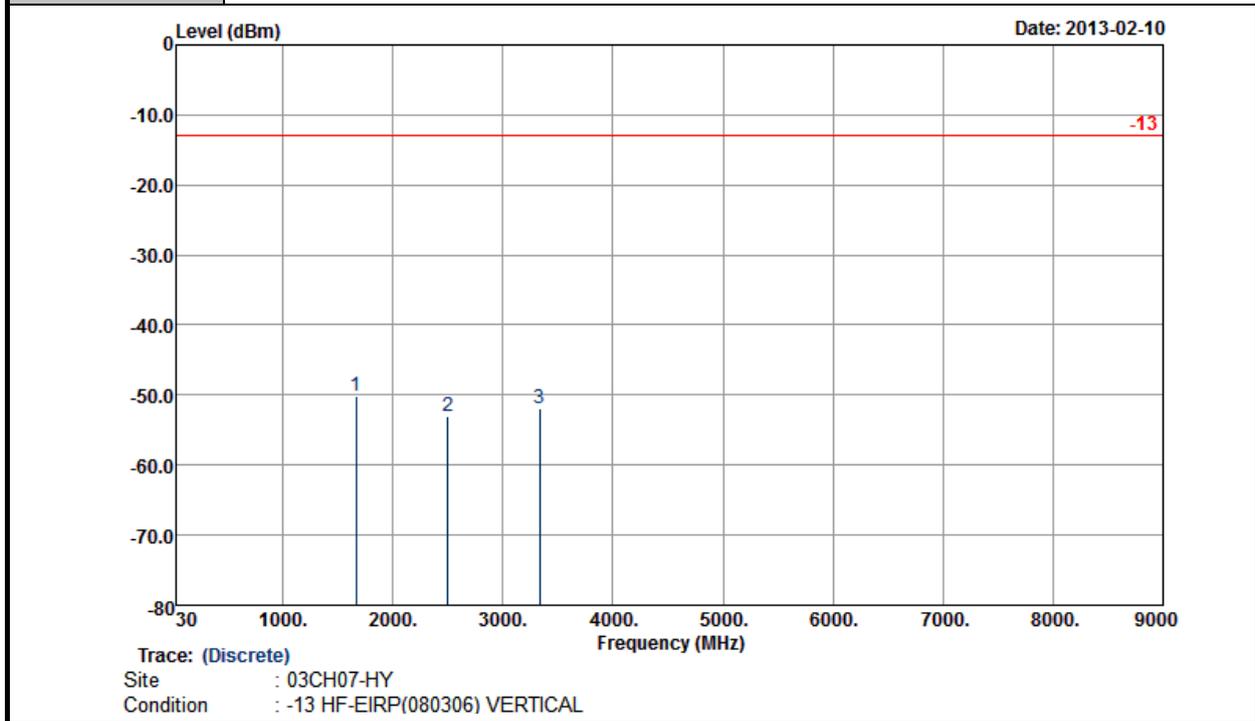


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1669	-55.81	-13	-42.81	-64.67	-57.53	1.62	5.49	H	Pass
2503	-53.82	-13	-40.82	-67.18	-55.79	2.1	6.22	H	Pass
3337	-52.45	-13	-39.45	-66.39	-55.34	3.03	8.07	H	Pass



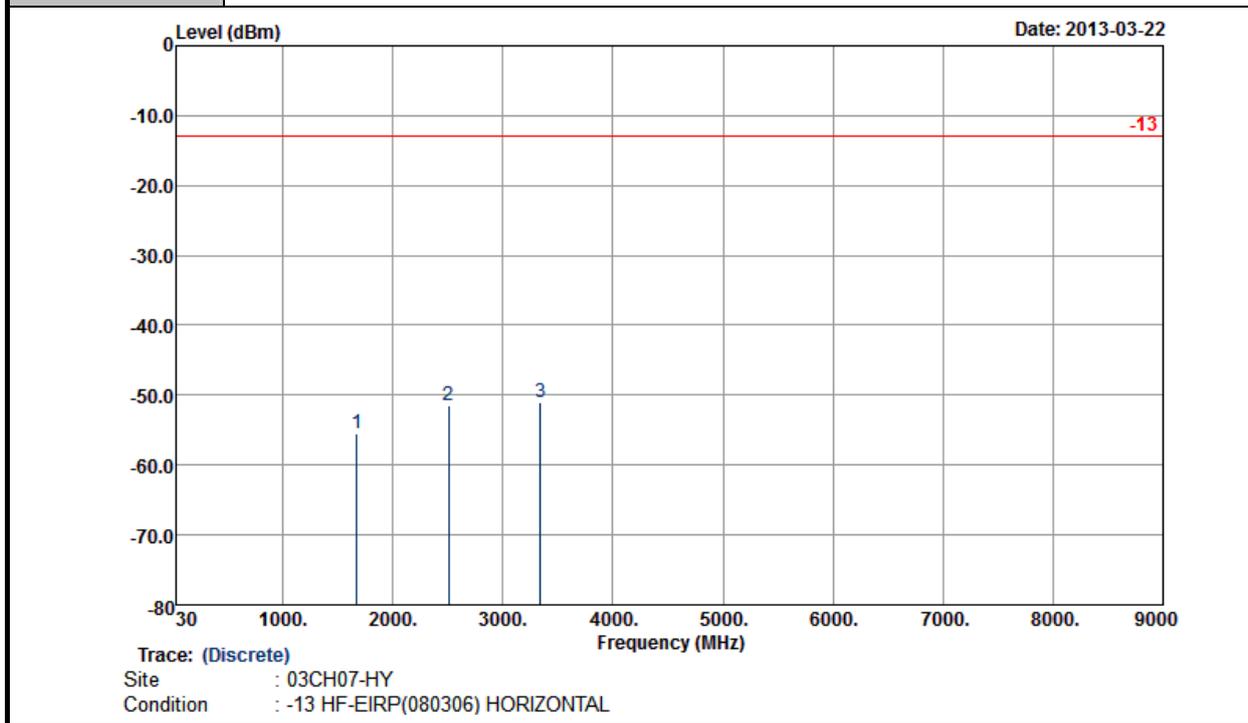
<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1669	-50.11	-13	-37.11	-61.21	-51.83	1.62	5.49	V	Pass
2503	-53.10	-13	-40.10	-67.05	-55.07	2.1	6.22	V	Pass
3337	-51.82	-13	-38.82	-67.51	-54.71	3.03	8.07	V	Pass



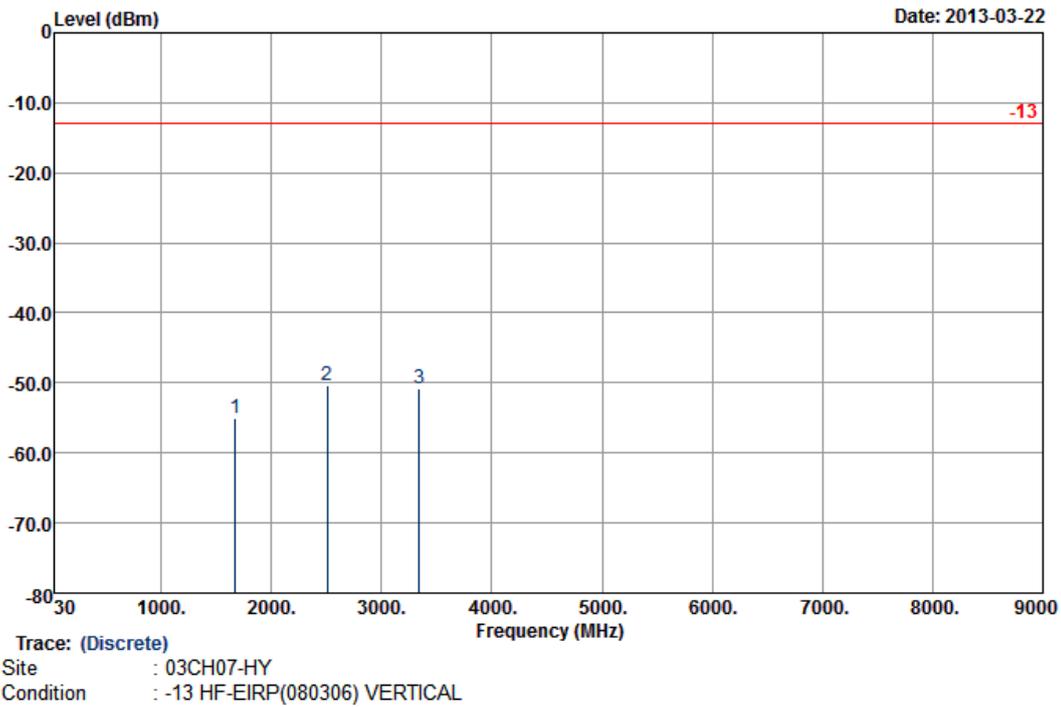
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<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1672	-55.54	-13	-42.54	-65.69	-57.26	1.62	5.49	H	Pass
2509	-51.50	-13	-38.50	-67.06	-53.47	2.1	6.22	H	Pass
3345	-51.07	-13	-38.07	-66.97	-53.96	3.03	8.07	H	Pass



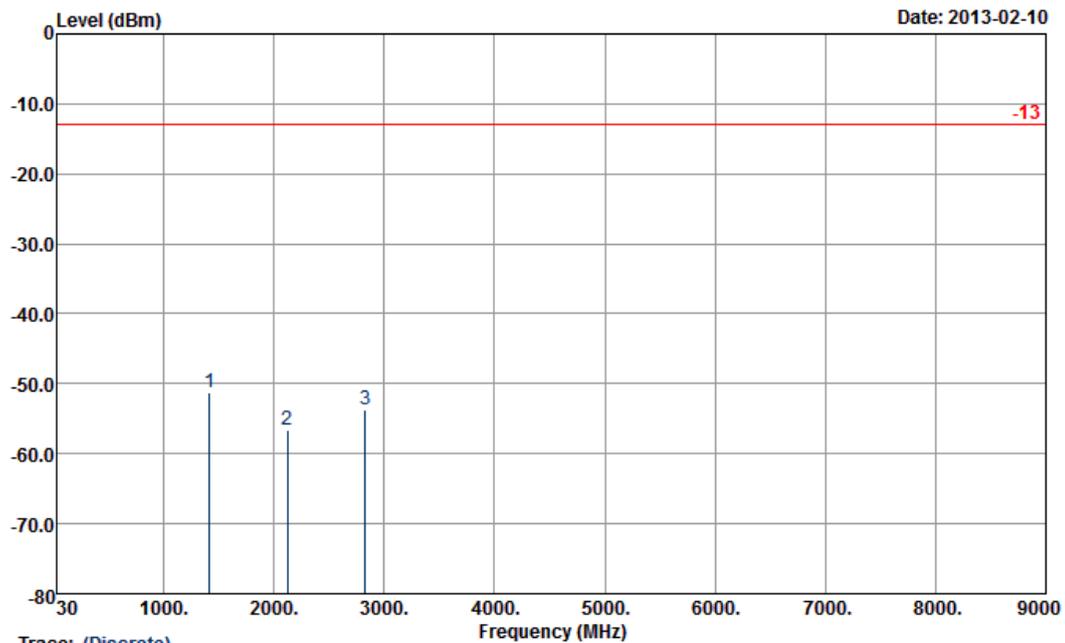
Band :	LTE Band 5	Temperature :	22~24°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Eric Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1672	-54.96	-13	-41.96	-66.46	-56.68	1.62	5.49	V	Pass
2509	-50.43	-13	-37.43	-65.45	-52.4	2.1	6.22	V	Pass
3345	-50.89	-13	-37.89	-67.3	-53.78	3.03	8.07	V	Pass



<b>Band :</b>	LTE Band 12	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

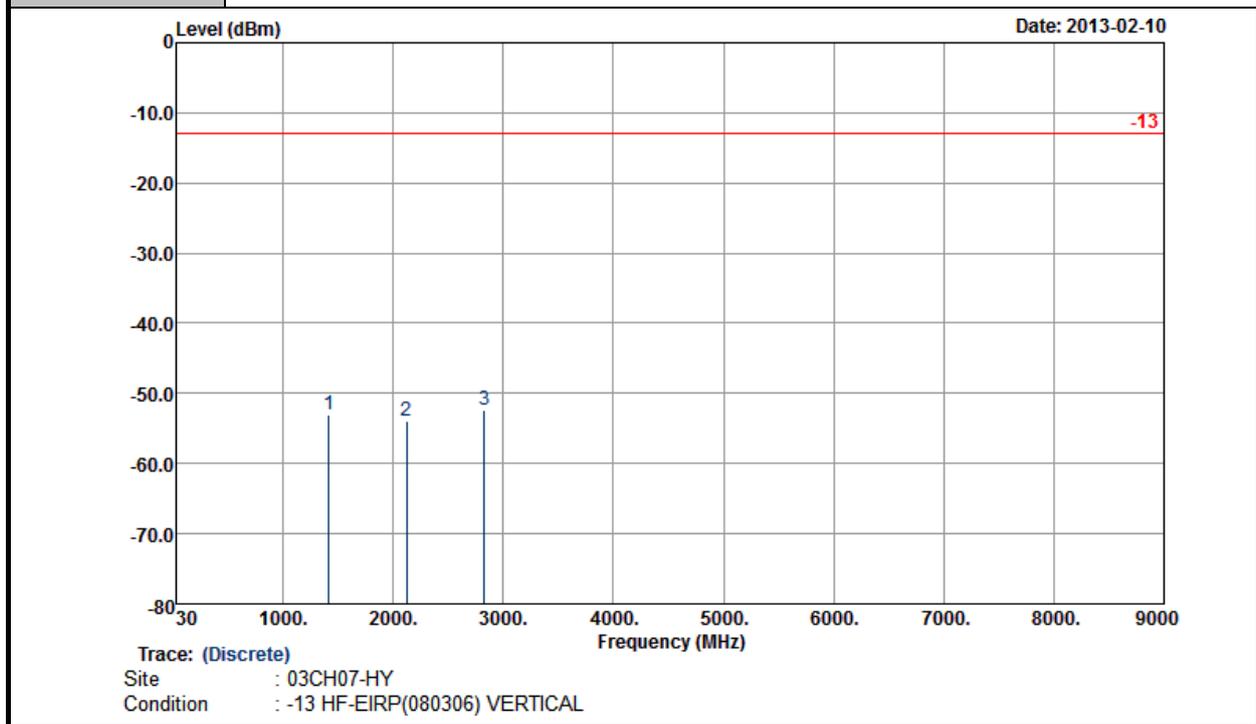


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1414	-51.30	-13	-38.30	-59.61	-53.24	1.51	5.60	H	Pass
2122	-56.53	-13	-43.53	-67.73	-58.56	1.82	6.00	H	Pass
2827	-53.70	-13	-40.70	-67.1	-56.33	2.2	6.98	H	Pass



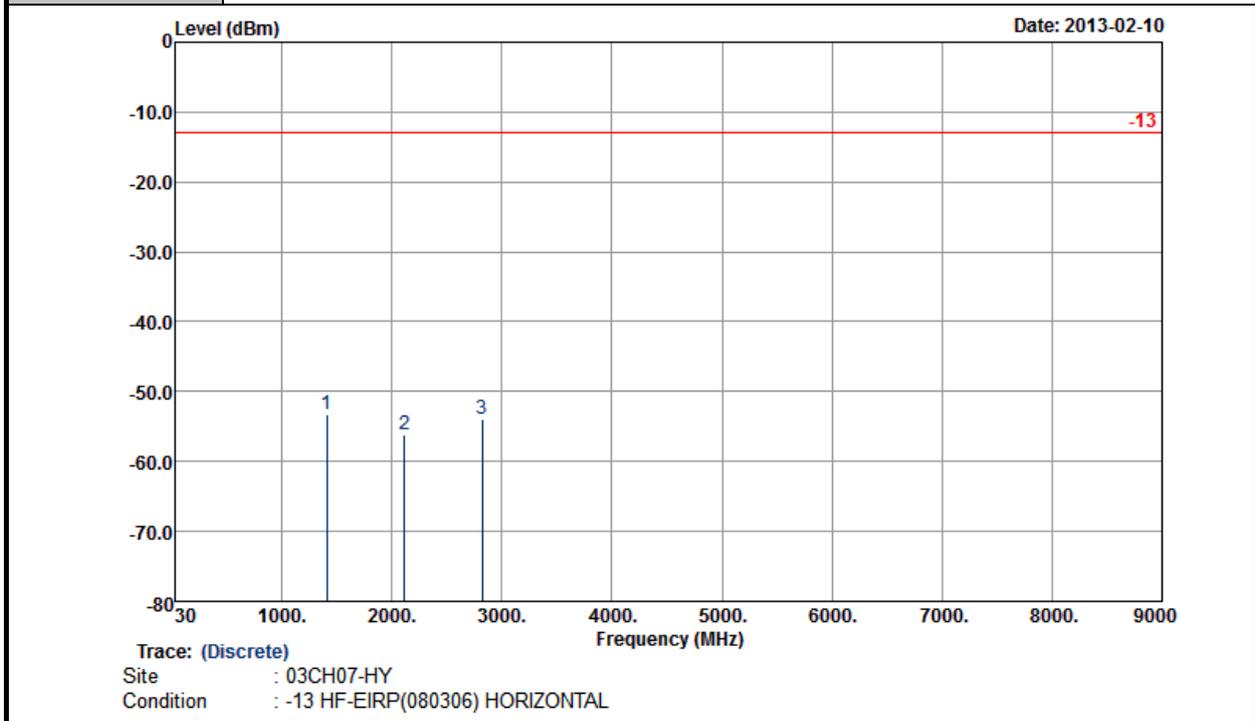
<b>Band :</b>	LTE Band 12	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1414	-52.97	-13	-39.97	-63.44	-54.91	1.51	5.60	V	Pass
2122	-54.01	-13	-41.01	-67.24	-56.04	1.82	6.00	V	Pass
2827	-52.26	-13	-39.26	-67.4	-54.89	2.2	6.98	V	Pass



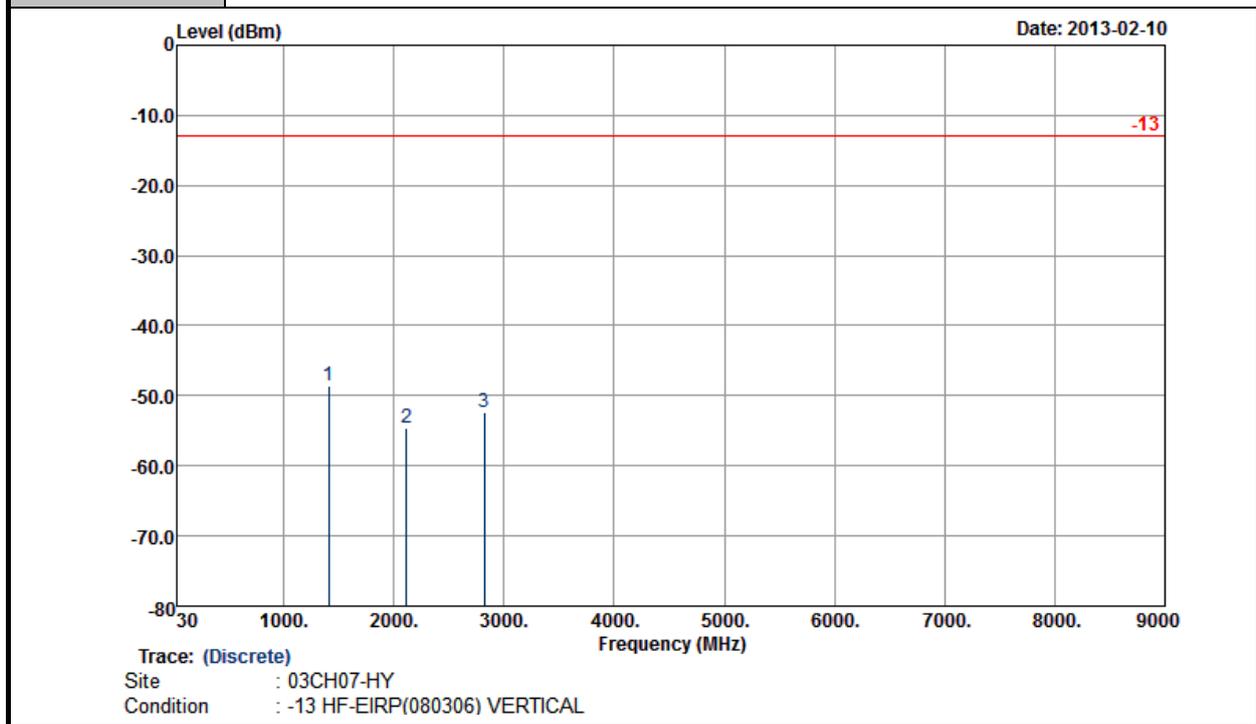
<b>Band :</b>	LTE Band 12	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1411	-53.29	-13	-40.29	-61.53	-55.23	1.51	5.60	H	Pass
2116	-56.23	-13	-43.23	-67.47	-58.26	1.82	6.00	H	Pass
2821	-53.86	-13	-40.86	-67.32	-56.49	2.2	6.98	H	Pass



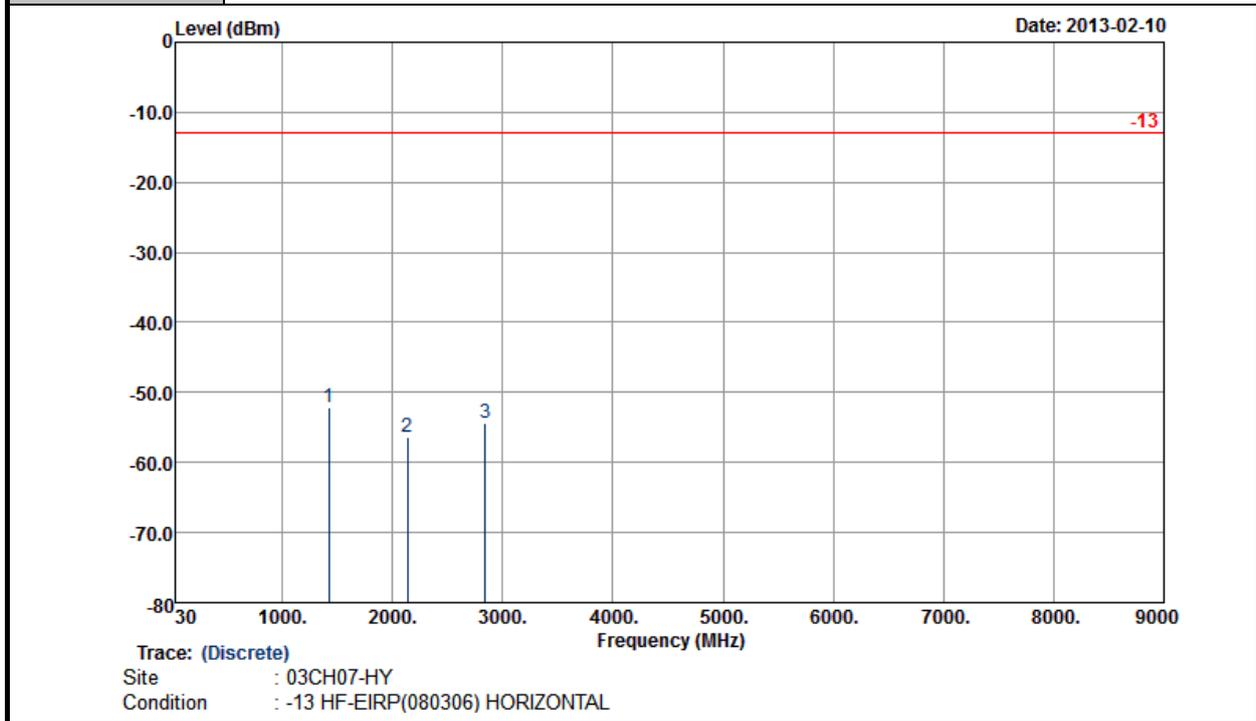
<b>Band :</b>	LTE Band 12	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1411	-48.69	-13	-35.69	-59.16	-50.63	1.51	5.60	V	Pass
2116	-54.68	-13	-41.68	-67.67	-56.71	1.82	6.00	V	Pass
2821	-52.32	-13	-39.32	-67.29	-54.95	2.2	6.98	V	Pass



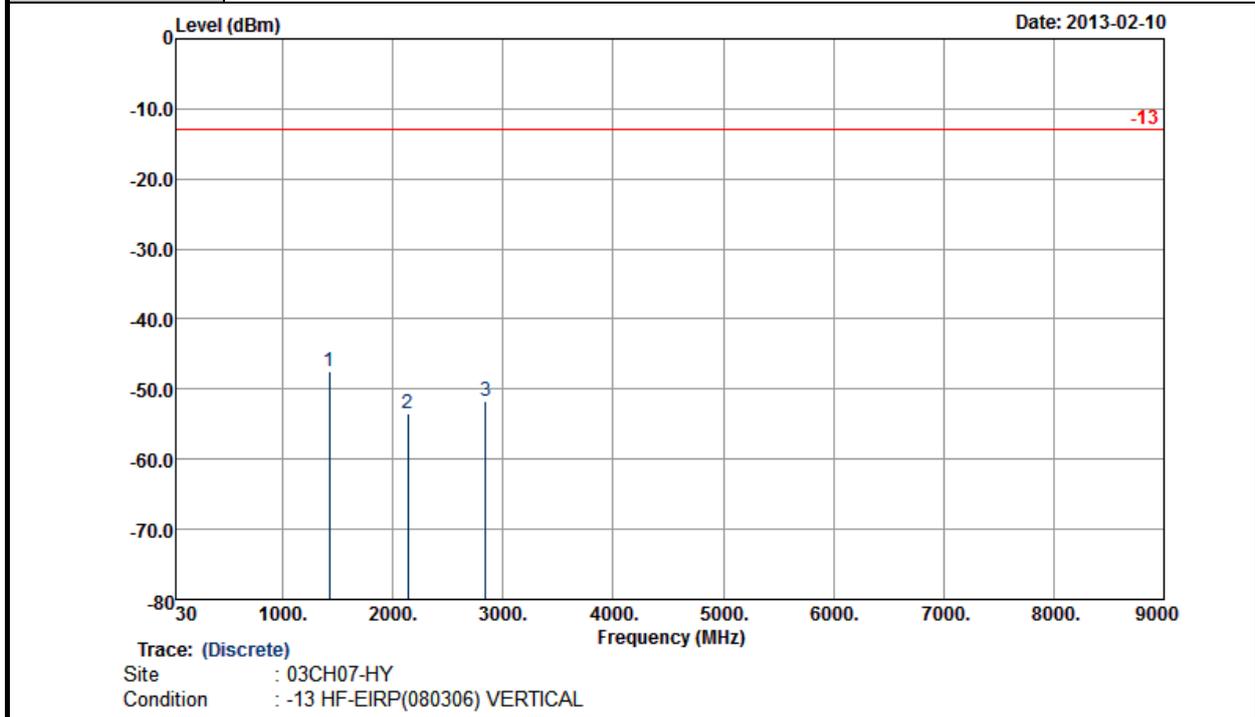
<b>Band :</b>	LTE Band 12	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1423	-52.18	-13	-39.18	-60.39	-54.12	1.51	5.60	H	Pass
2134	-56.42	-13	-43.42	-67.79	-58.45	1.82	6.00	H	Pass
2845	-54.43	-13	-41.43	-67.84	-57.06	2.2	6.98	H	Pass



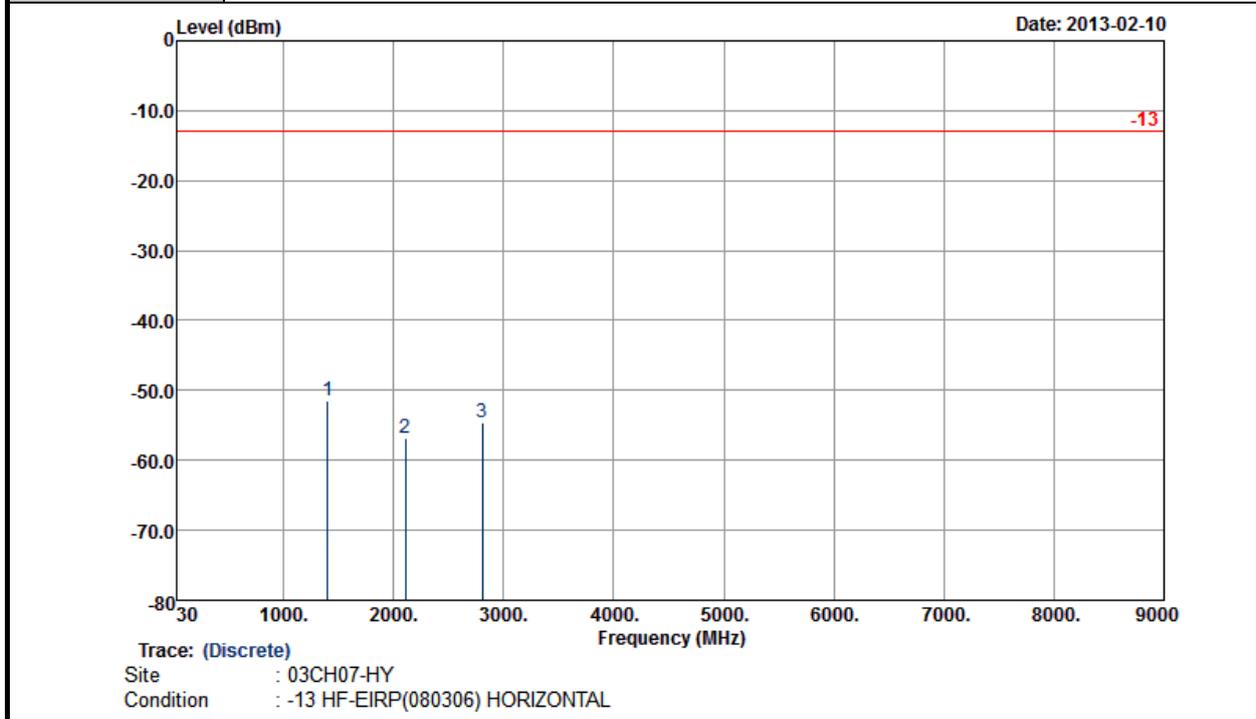
<b>Band :</b>	LTE Band 12	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1423	-47.54	-13	-34.54	-57.85	-49.48	1.51	5.60	V	Pass
2134	-53.56	-13	-40.56	-66.72	-55.59	1.82	6.00	V	Pass
2845	-51.73	-13	-38.73	-66.81	-54.36	2.2	6.98	V	Pass



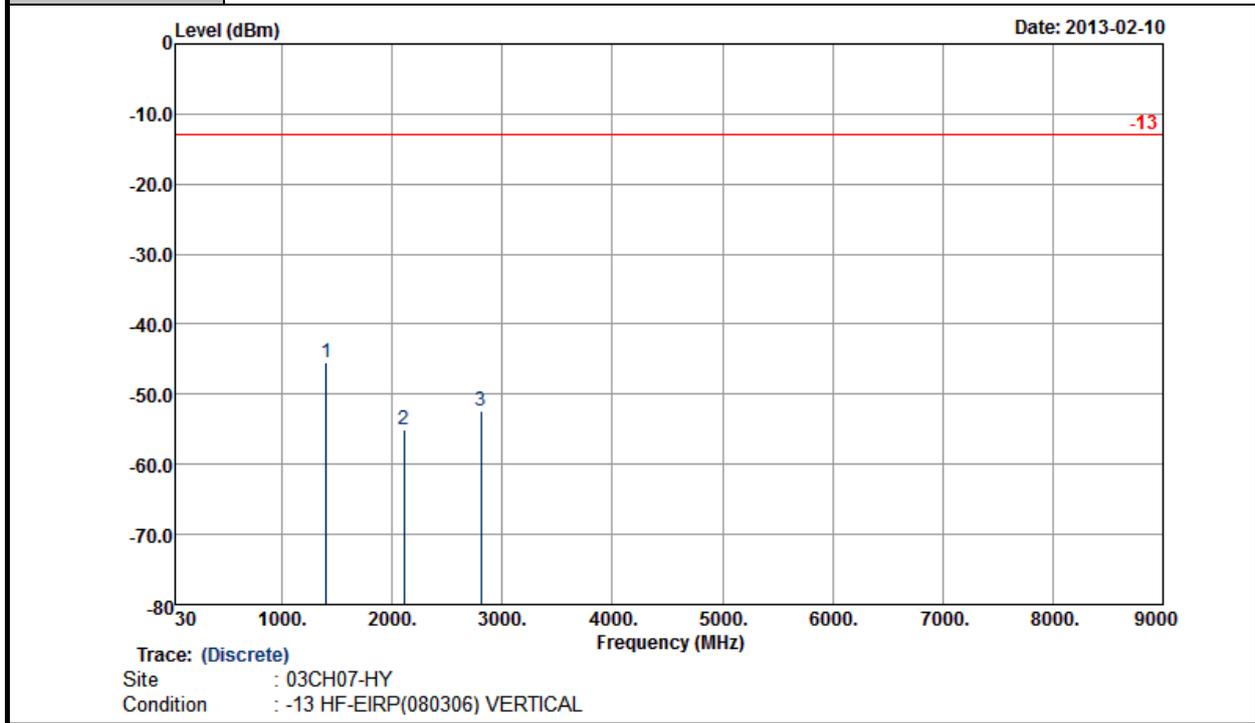
<b>Band :</b>	LTE Band 12	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1405	-51.44	-13	-38.44	-59.67	-53.38	1.51	5.60	H	Pass
2107	-56.81	-13	-43.81	-67.91	-58.84	1.82	6.00	H	Pass
2809	-54.49	-13	-41.49	-67.82	-57.12	2.2	6.98	H	Pass



<b>Band :</b>	LTE Band 12	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Eric Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1405	-45.35	-13	-32.35	-55.79	-47.29	1.51	5.60	V	Pass
2107	-55.13	-13	-42.13	-68.08	-57.16	1.82	6.00	V	Pass
2809	-52.41	-13	-39.41	-67.24	-55.04	2.2	6.98	V	Pass

### 3.7 Frequency Stability Measurement

#### 3.7.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

#### 3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

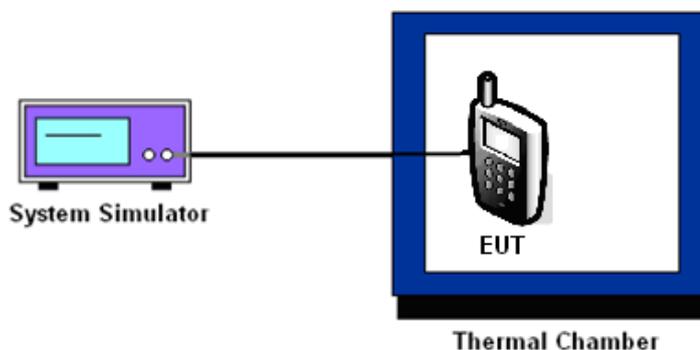
#### 3.7.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
4. If the EUT cannot be turned on at  $-30^{\circ}\text{C}$ , the testing lowest temperature will be raised in  $10^{\circ}\text{C}$  step until the EUT can be turned on.

#### 3.7.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at  $25\pm 5^{\circ}\text{C}$  and connected with the base station.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

#### 3.7.5 Test Setup



3.7.6 Test Result of Temperature Variation

Band :	LTE Band 2 (QPSK)		Limit (ppm) :	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-9.5	-0.005	-6.4	-0.003	PASS
-20	-6.2	-0.003	-6.8	-0.004	
-10	6.8	0.004	-9.5	-0.005	
0	2.9	0.002	6.7	0.004	
10	7.6	0.004	8.6	0.005	
20	-8.9	-0.005	3.9	0.002	
30	-5.5	-0.003	-9.6	-0.005	
40	-7.2	-0.004	6.5	0.003	
50	-6.1	-0.003	-9.0	-0.005	
55	-4.5	-0.002	-7.6	-0.004	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 2 (QPSK)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	8.5	0.005	-6.2	-0.003	PASS
-20	7.4	0.004	-4.6	-0.002	
-10	-6.2	-0.003	7.3	0.004	
0	-8.4	-0.004	-8.6	-0.005	
10	-7.2	-0.004	-3.6	-0.002	
20	-6.9	-0.004	-4.5	-0.002	
30	-7.9	-0.004	-5.6	-0.003	
40	-11.2	-0.006	-8.1	-0.004	
50	-10.9	-0.006	7.1	0.004	
55	8.5	0.005	6.5	0.003	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



<b>Band :</b>	LTE Band 2 (QPSK)		<b>Limit (ppm) :</b>	2.5	
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	6.7	0.004	-7.4	-0.004	PASS
-20	5.6	0.003	-8.5	-0.005	
-10	-4.9	-0.003	-6.9	-0.004	
0	8.2	0.004	-7.8	-0.004	
10	-7.6	-0.004	-9.6	-0.005	
20	9.3	0.005	-5.7	-0.003	
30	-7.1	-0.004	10.2	0.005	
40	-8.8	-0.005	9.5	0.005	
50	-9.1	-0.005	-8.4	-0.004	
55	7.5	0.004	-7.9	-0.004	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

<b>Band :</b>	LTE Band 2 (16QAM)		<b>Limit (ppm) :</b>	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-8.6	-0.005	-9.8	-0.005	PASS
-20	-7.3	-0.004	-5.6	-0.003	
-10	-6.9	-0.004	8.0	0.004	
0	-7.9	-0.004	6.5	0.003	
10	-9.1	-0.005	9.3	0.005	
20	-4.6	-0.002	11.2	0.006	
30	5.2	0.003	6.9	0.004	
40	4.0	0.002	-10.8	-0.006	
50	-6.0	-0.003	-11.2	-0.006	
55	-8.3	-0.004	-8.3	-0.004	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 2 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-6.6	-0.004	-7.2	-0.004	PASS
-20	-7.0	-0.004	-6.1	-0.003	
-10	-5.6	-0.003	-7.5	-0.004	
0	4.9	0.003	-4.9	-0.003	
10	5.6	0.003	-3.8	-0.002	
20	-8.1	-0.004	2.6	0.001	
30	-7.8	-0.004	3.7	0.002	
40	-5.3	-0.003	-5.2	-0.003	
50	-6.2	-0.003	-7.7	-0.004	
55	5.4	0.003	-3.6	-0.002	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 2 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-11.2	-0.006	10.2	0.005	PASS
-20	-8.3	-0.004	-8.3	-0.004	
-10	-12.6	-0.007	-9.6	-0.005	
0	-7.8	-0.004	-7.6	-0.004	
10	-8.3	-0.004	-9.1	-0.005	
20	-11.6	-0.006	4.3	0.002	
30	9.2	0.005	-4.9	-0.003	
40	8.3	0.004	-6.3	-0.003	
50	6.5	0.003	-6.9	-0.004	
55	-9.6	-0.005	-8.0	-0.004	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 4 (QPSK)		Limit (ppm) :	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-1.3	-0.001	8.4	0.005	PASS
-20	8.6	0.005	-11.0	-0.006	
-10	9.3	0.005	-10.6	-0.006	
0	-9.6	-0.006	-9.8	-0.006	
10	9.0	0.005	8.6	0.005	
20	8.4	0.005	9.3	0.005	
30	-11.0	-0.006	-9.6	-0.006	
40	-10.6	-0.006	8.6	0.005	
50	-10.1	-0.006	9.3	0.005	
55	-11.8	-0.007	-9.6	-0.006	

**Note:** The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 4 (QPSK)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-9.6	-0.006	7.5	0.004	PASS
-20	-9.2	-0.005	-8.6	-0.005	
-10	-8.9	-0.005	-9.1	-0.005	
0	-8.9	-0.005	8.4	0.005	
10	7.8	0.005	-7.9	-0.005	
20	8.3	0.005	-11.0	-0.006	
30	-11.0	-0.006	-12.0	-0.007	
40	-10.8	-0.006	9.6	0.006	
50	7.6	0.004	8.7	0.005	
55	10.8	0.006	-8.3	-0.005	

**Note:** The manufacturer declared that the EUT could work properly between temperatures 55°C.



<b>Band :</b>	LTE Band 4 (QPSK)		<b>Limit (ppm) :</b>	2.5	
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-12.0	-0.007	-7.8	-0.005	PASS
-20	-11.0	-0.006	1.3	0.001	
-10	-10.8	-0.006	-0.5	0.000	
0	7.6	0.004	-11.0	-0.006	
10	-8.9	-0.005	7.8	0.005	
20	7.8	0.005	8.3	0.005	
30	8.3	0.005	-11.0	-0.006	
40	-9.2	-0.005	6.9	0.004	
50	-10.6	-0.006	-11.1	-0.006	
55	-11.0	-0.006	-9.5	-0.005	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

<b>Band :</b>	LTE Band 4 (16QAM)		<b>Limit (ppm) :</b>	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-13.1	-0.008	9.8	0.006	PASS
-20	-12.6	-0.007	7.6	0.004	
-10	-9.3	-0.005	-10.2	-0.006	
0	-11.0	-0.006	-11.3	-0.007	
10	-8.7	-0.005	-10.5	-0.006	
20	-6.9	-0.004	-8.7	-0.005	
30	9.6	0.006	-9.2	-0.005	
40	-10.1	-0.006	-8.8	-0.005	
50	-9.6	-0.006	-9.7	-0.006	
55	-10.5	-0.006	-11.1	-0.006	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 4 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-9.6	-0.006	-8.5	-0.005	PASS
-20	-8.5	-0.005	6.7	0.004	
-10	-10.6	-0.006	5.6	0.003	
0	-11.3	-0.007	8.6	0.005	
10	-8.9	-0.005	7.1	0.004	
20	-10.6	-0.006	8.3	0.005	
30	-11.5	-0.007	-10.5	-0.006	
40	-13.1	-0.008	-7.4	-0.004	
50	-10.5	-0.006	-9.8	-0.006	
55	-9.7	-0.006	-10.6	-0.006	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 4 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	9.4	0.005	-8.1	-0.005	PASS
-20	7.3	0.004	-7.6	-0.004	
-10	8.9	0.005	-5.5	-0.003	
0	-10.3	-0.006	-8.1	-0.005	
10	-9.5	-0.005	7.9	0.005	
20	7.9	0.005	8.1	0.005	
30	8.2	0.005	-9.2	-0.005	
40	9.1	0.005	-8.4	-0.005	
50	-7.6	-0.004	7.7	0.004	
55	-9.1	-0.005	5.9	0.003	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



<b>Band :</b>	LTE Band 5 (QPSK)		<b>Limit (ppm) :</b>	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	6.5	0.300	3.6	0.005	PASS
-20	3.8	0.005	4.6	0.006	
-10	4.2	0.006	-5.1	-0.007	
0	-6.7	-0.009	-6.3	-0.009	
10	-8.1	-0.011	-4.9	-0.007	
20	-7.6	-0.011	-7.2	-0.010	
30	5.2	0.007	-6.3	-0.009	
40	-6.9	-0.010	5.9	0.008	
50	-8.7	-0.012	-6.8	-0.010	
55	-7.1	-0.010	4.1	0.006	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

<b>Band :</b>	LTE Band 5 (QPSK)		<b>Limit (ppm) :</b>	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	2.2	0.003	2.9	0.004	PASS
-20	-8.9	-0.013	0.8	0.001	
-10	-7.8	-0.011	-0.1	0.000	
0	-5.3	-0.007	3.1	0.004	
10	-7.1	-0.010	2.6	0.004	
20	6.9	0.010	4.9	0.007	
30	5.1	0.007	4.8	0.007	
40	-9.7	-0.014	-2.8	-0.004	
50	4.3	0.006	3.9	0.006	
55	3.8	0.005	-1.7	-0.002	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 5 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	1.9	0.003	-2.3	-0.003	PASS
-20	-2.6	-0.004	2.6	0.004	
-10	-1.5	-0.002	2.2	0.003	
0	8.7	0.012	-1.1	-0.002	
10	5.6	0.008	0.5	0.001	
20	-2.1	-0.003	-2.3	-0.003	
30	2.3	0.003	2.6	0.004	
40	-1.5	-0.002	2.2	0.003	
50	-2.9	-0.004	-2.6	-0.004	
55	3.3	0.005	2.7	0.004	

**Note:** The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 5 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	2.1	0.003	-3.2	-0.005	PASS
-20	-1.1	-0.002	-2.6	-0.004	
-10	2.5	0.004	-2.9	-0.004	
0	-3.1	-0.004	2.2	0.003	
10	-2.1	-0.003	-1.1	-0.002	
20	2.3	0.003	2.6	0.004	
30	1.5	0.002	-3.6	-0.005	
40	-1.1	-0.002	-4.1	-0.006	
50	2.5	0.004	-3.1	-0.004	
55	-2.3	-0.003	2.9	0.004	

**Note:** The manufacturer declared that the EUT could work properly between temperatures 55°C.



<b>Band :</b>	LTE Band 12 (QPSK)		<b>Limit (ppm) :</b>	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	5.9	0.008	-12.3	-0.017	PASS
-20	5.2	0.007	-11.0	-0.015	
-10	-7.1	-0.010	-12.9	-0.018	
0	8.3	0.012	-11.0	-0.015	
10	-9.5	-0.013	-7.5	-0.011	
20	-7.2	-0.010	-8.3	-0.012	
30	-6.4	-0.009	-5.4	-0.008	
40	-7.1	-0.010	-7.5	-0.011	
50	-11.0	-0.015	6.4	0.009	
55	8.0	0.011	-9.5	-0.013	

**Note:** The manufacturer declared that the EUT could work properly between temperatures 55°C.

<b>Band :</b>	LTE Band 12 (QPSK)		<b>Limit (ppm) :</b>	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	7.8	0.011	-12.3	-0.017	PASS
-20	3.4	0.005	-5.4	-0.008	
-10	4.3	0.006	-12.3	-0.017	
0	-10.2	-0.014	-10.3	-0.015	
10	-11.6	-0.016	-8.3	-0.012	
20	8.3	0.012	-5.2	-0.007	
30	8.6	0.012	-8.8	-0.012	
40	-9.1	-0.013	-5.7	-0.008	
50	-11.0	-0.015	-12.3	-0.017	
55	4.3	0.006	-11.0	-0.015	

**Note:** The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 12 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	8.3	0.012	-6.1	-0.009	PASS
-20	5.2	0.007	-8.3	-0.012	
-10	-10.3	-0.015	-9.5	-0.013	
0	-8.3	-0.012	-7.2	-0.010	
10	-5.4	-0.008	6.4	0.009	
20	-8.7	-0.012	-5.5	-0.008	
30	-7.2	-0.010	-5.4	-0.008	
40	-6.4	-0.009	-6.3	-0.009	
50	-5.5	-0.008	-3.8	-0.005	
55	-6.0	-0.008	-6.2	-0.009	

**Note:** The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 12 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	5.9	0.008	-12.3	-0.017	PASS
-20	7.3	0.010	-11.0	-0.015	
-10	6.2	0.009	8.0	0.011	
0	5.2	0.007	-9.5	-0.013	
10	-7.1	-0.010	-7.5	-0.011	
20	8.3	0.012	-6.4	-0.009	
30	8.6	0.012	-7.5	-0.011	
40	-9.1	-0.013	-8.0	-0.011	
50	-5.5	-0.008	-6.8	-0.010	
55	-9.0	-0.013	-7.6	-0.011	

**Note:** The manufacturer declared that the EUT could work properly between temperatures 55°C.



3.7.7 Test Result of Voltage Variation

Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 2 (QPSK)	1.4M	4.35	-6.5	-0.003	2.5	PASS
		Normal	-7.1	-0.004		
		3.6	-9.8	-0.005		
	3M	4.35	-6.5	-0.003		
		Normal	5.3	0.003		
		3.6	4.9	0.003		
	5M	4.35	-7.0	-0.004		
		Normal	-8.2	-0.004		
		3.6	6.6	0.004		
	10M	4.35	5.9	0.003		
		Normal	5.7	0.003		
		3.6	-6.0	-0.003		
	15M	4.35	-7.5	-0.004		
		Normal	-6.8	-0.004		
		3.6	-11.0	-0.006		
	20M	4.35	-13.6	-0.007		
		Normal	-12.0	-0.006		
		3.6	9.1	0.005		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 2 (16QAM)	1.4M	4.35	-12.6	-0.007	2.5	PASS
		Normal	-8.3	-0.004		
		3.6	-9.2	-0.005		
	3M	4.35	6.5	0.003		
		Normal	-8.2	-0.004		
		3.6	-9.4	-0.005		
	5M	4.35	6.2	0.003		
		Normal	5.3	0.003		
		3.6	-7.0	-0.004		
	10M	4.35	-6.6	-0.004		
		Normal	-8.2	-0.004		
		3.6	-7.1	-0.004		
	15M	4.35	-6.9	-0.004		
		Normal	-9.3	-0.005		
		3.6	-12.1	-0.006		
	20M	4.35	9.7	0.005		
		Normal	8.5	0.005		
		3.6	-7.6	-0.004		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 4 (QPSK)	1.4M	4.35	8.1	0.005	2.5	PASS
		Normal	6.5	0.004		
		3.6	-7.8	-0.005		
	3M	4.35	-10.8	-0.006		
		Normal	7.6	0.004		
		3.6	-8.9	-0.005		
	5M	4.35	8.1	0.005		
		Normal	6.5	0.004		
		3.6	-7.8	-0.005		
	10M	4.35	8.1	0.005		
		Normal	6.5	0.004		
		3.6	-7.8	-0.005		
	15M	4.35	-7.8	-0.005		
		Normal	-10.8	-0.006		
		3.6	7.6	0.004		
	20M	4.35	6.5	0.004		
		Normal	-7.8	-0.005		
		3.6	8.1	0.005		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 4 (16QAM)	1.4M	4.35	-1.3	-0.001	2.5	PASS
		Normal	7.5	0.004		
		3.6	-8.6	-0.005		
	3M	4.35	-9.1	-0.005		
		Normal	8.4	0.005		
		3.6	-7.9	-0.005		
	5M	4.35	-10.3	-0.006		
		Normal	-9.8	-0.006		
		3.6	-12.3	-0.007		
	10M	4.35	8.1	0.005		
		Normal	-8.9	-0.005		
		3.6	7.8	0.005		
	15M	4.35	8.3	0.005		
		Normal	-9.2	-0.005		
		3.6	-12.3	-0.007		
	20M	4.35	8.1	0.005		
		Normal	6.5	0.004		
		3.6	-7.8	-0.005		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 5 (QPSK)	1.4M	4.35	-3.2	-0.005	2.5	PASS
		Normal	-4.3	-0.006		
		3.6	-4.0	-0.006		
	3M	4.35	-5.2	-0.007		
		Normal	2.0	0.003		
		3.6	-3.3	-0.005		
	5M	4.35	3.1	0.004		
		Normal	2.8	0.004		
		3.6	-3.6	-0.005		
	10M	4.35	4.9	0.007		
		Normal	-5.0	-0.007		
		3.6	6.1	0.009		

Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 5 (16QAM)	1.4M	4.35	-1.5	-0.002	2.5	PASS
		Normal	-1.5	-0.002		
		3.6	-2.9	-0.004		
	3M	4.35	-2.1	-0.003		
		Normal	-3.2	-0.005		
		3.6	-2.6	-0.004		
	5M	4.35	-3.2	-0.005		
		Normal	-2.6	-0.004		
		3.6	-1.1	-0.002		
	10M	4.35	-1.5	-0.002		
		Normal	-2.9	-0.004		
		3.6	-3.5	-0.005		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 12 (QPSK)	1.4M	4.35	-6.2	-0.009	2.5	PASS
		Normal	-8.7	-0.012		
		3.6	6.4	0.009		
	3M	4.35	-9.5	-0.013		
		Normal	7.1	0.010		
		3.6	9.8	0.014		
	5M	4.35	-5.1	-0.007		
		Normal	5.8	0.008		
		3.6	6.6	0.009		
	10M	4.35	-7.2	-0.010		
		Normal	6.9	0.010		
		3.6	7.6	0.011		

Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 12 (16QAM)	1.4M	4.35	6.9	0.010	2.5	PASS
		Normal	7.6	0.011		
		3.6	3.4	0.005		
	3M	4.35	4.3	0.006		
		Normal	8.2	0.012		
		3.6	11.5	0.016		
	5M	4.35	9.7	0.014		
		Normal	7.8	0.011		
		3.6	3.4	0.005		
	10M	4.35	4.3	0.006		
		Normal	7.8	0.011		
		3.6	3.4	0.005		

**Remark:**

1. Normal Voltage = 3.8V.
2. Battery End Point (BEP) = 3.6 V.

## 4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Data	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 29, 2012	Feb. 15, 2013~ Mar. 22, 2013	Dec. 28, 2013	Conducted (TH01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Nov. 08, 2012	Feb. 15, 2013~ Mar. 22, 2013	Nov. 07, 2013	Conducted (TH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 22, 2012	Feb. 15, 2013~ Mar. 22, 2013	Aug. 21, 2013	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 29, 2012	Feb. 15, 2013~ Mar. 22, 2013	Dec. 28, 2013	Conducted (TH01-KS)
LTE Base Station	Anritsu	MT8820C	6201074235	LTE_FDD full band	Nov. 29, 2012	Feb. 15, 2013~ Mar. 22, 2013	Nov. 28, 2013	Conducted (TH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/001	9KHz ~ 30MHz	Jul. 03, 2012	Feb. 09, 2013~ Mar. 22, 2013	Jul. 02, 2014	Radiation (03CH07-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Oct. 06, 2012	Feb. 09, 2013~ Mar. 22, 2013	Oct. 05, 2013	Radiation (03CH07-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9KHz ~ 30GHz	Nov. 30, 2012	Feb. 09, 2013~ Mar. 22, 2013	Nov. 29, 2013	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 22, 2012	Feb. 09, 2013~ Mar. 22, 2013	Aug. 21, 2013	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Dec. 01, 2012	Feb. 09, 2013~ Mar. 22, 2013	Nov. 30, 2013	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-001018 00-30-10P	159088	1GHz ~ 18GHz	Feb. 28, 2012 Feb. 27, 2013	Feb. 09, 2013~ Mar. 22, 2013	Feb. 27, 2013 Feb. 26, 2014	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10-1000MHz. 32dB.GAIN	Feb. 28, 2012 Feb. 27, 2013	Feb. 09, 2013~ Mar. 22, 2013	Feb. 27, 2013 Feb. 26, 2014	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Sep. 03, 2012	Feb. 09, 2013~ Mar. 22, 2013	Sep. 02, 2013	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz ~ 40GHz	Sep. 28, 2012	Feb. 09, 2013~ Mar. 22, 2013	Sep. 27, 2013	Radiation (03CH07-HY)
LTE Base Station	Anritsu	MT8820C	6201074414	N/A	Jan. 04, 2013	Feb. 09, 2013~ Mar. 22, 2013	Jan. 03, 2014	Radiation (03CH07-HY)



## 5 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.54
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.72
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## **Appendix A. Photographs of EUT**

Please refer to Sporton report number EP2O1601 as below.