FCC RF Test Report

APPLICANT	:	Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd.
EQUIPMENT	:	mobile phone
BRAND NAME	:	Coolpad
MODEL NAME	:	Coolpad 801E
FCC ID	:	R38YL801E
STANDARD	:	FCC CFR Part 2, 24(E), 27(L), 27(H)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jan. 16, 2013 and completely tested on Jan. 28, 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

Jones Tsai / Manager

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

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG311602B	Rev. 01	Initial issue of report	Feb. 05, 2013

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	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	EIRP < 2 Watt (Band 2, 25)	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 §24.238(a) §27.53(g) (h)	N/A	Occupied Bandwidth	NA	PASS	-
3.4	§2.1051 §24.238(a) §27.53(g)(h)	RSS-133 (6.5.1) RSS-139 (6.5)	Emission Mask Measurement	< $43+10\log_{10}$(P[Watts])	PASS	-
3.4	§2.1051 §24.238(a) §27.53(g)(h)	RSS-133 (6.5.1) RSS-139 (6.5)	Conducted Spurious Emission	< $43+10\log_{10}$(P[Watts])	PASS	-
3.5	§2.1053 §24.238(a) §27.53(g)(h)	RSS-133 (6.5.1) RSS-139 (6.5)	Undesirable Out of Band Emissions	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 20.04 dB at 10264.200 MHz
3.6	§2.1055 §24.235 §27.54	RSS-133 (6.3) RSS-139 (6.3)	Frequency Stability Temperature & Voltage	< 2.5 ppm	PASS	-

1 General Description

1.1 Applicant

Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd.
Hi-Tech Industry Park(North), Nanshan District, Shenzhen City, Guangdong Province, P.R.C

1.2 Manufacturer

Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd.
Hi-Tech Industry Park(North), Nanshan District, Shenzhen City, Guangdong Province, P.R.C

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	mobile phone
Brand Name	Coolpad
Model Name	Coolpad 801E
FCC ID	R38YL801E
EUT supports Radios application	CDMA/EV-DO/LTE/WLAN 11bgn/ Bluetooth/Bluetooth4.0 – LE
HW Version	P0
SW Version	4.1.012.P0.130105.QC1
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 4 : 1710.7MHz ~ 1754.3 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz (Optional) LTE Band 25 : 1850.7 MHz ~ 1914.3 MHz
Rx Frequency	LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz (Optional) LTE Band 25 : 1930.7 MHz ~ 1994.3 MHz
Bandwidth	1.4MHz / 3MHz / 5MHz/ 10MHz
Maximum Output Power to Antenna	LTE Band 4 : 23.03 dBm LTE Band 12 : 23.47 dBm LTE Band 2 : 23.44 dBm LTE Band 25 : 23.35 dBm
Antenna Type	PIFA Antenna
Type of Modulation	QPSK / 16QAM

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. By design, LTE band 2 and LTE band 25 can be switched by software.

1.4 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	BW	Maximum ERP/EIRP (W)	Frequency Tolerance (%, Hz, ppm)	Emission Designator
Part 27L	LTE Band 4	QPSK	1.4MHz	0.1968 W	0.006	1M10G7D
Part 27L	LTE Band 4	16QAM	1.4MHz	0.1567 W	0.006	1M10D7W
Part 27L	LTE Band 4	QPSK	3MHz	0.2089 W	0.005	2M75G7D
Part 27L	LTE Band 4	16QAM	3MHz	0.1888 W	0.005	2M75D7W
Part 27L	LTE Band 4	QPSK	5MHz	0.2183 W	0.008	4M52G7D
Part 27L	LTE Band 4	16QAM	5MHz	0.1849 W	0.008	4M52D7W
Part 27L	LTE Band 4	QPSK	10MHz	0.1820 W	0.006	9M12G7D
Part 27L	LTE Band 4	16QAM	10MHz	0.1462 W	0.006	9M12D7W
Part 27H	LTE Band 12	QPSK	1.4MHz	0.1387 W	0.007	1M10G7D
Part 27H	LTE Band 12	16QAM	1.4MHz	0.1040 W	0.007	1M10D7W
Part 27H	LTE Band 12	QPSK	3MHz	0.1542 W	0.008	2M75G7D
Part 27H	LTE Band 12	16QAM	3MHz	0.1172 W	0.008	2M75D7W
Part 27H	LTE Band 12	QPSK	5MHz	0.1403 W	0.007	4M52G7D
Part 27H	LTE Band 12	16QAM	5MHz	0.1159 W	0.007	4M52D7W
Part 27H	LTE Band 12	QPSK	10MHz	0.1535 W	0.007	9M12G7D
Part 27H	LTE Band 12	16QAM	10MHz	0.1419 W	0.007	9M12D7W

FCC Rule	System	Type of Modulation	BW	Maximum ERP/EIRP (W)	Frequency Tolerance (%, Hz, ppm)	Emission Designator
Part 24E	LTE Band 2	QPSK	1.4MHz	0.1897 W	0.009	1M10G7D
Part 24E	LTE Band 2	16QAM	1.4MHz	0.1507 W	0.009	1M10D7W
Part 24E	LTE Band 2	QPSK	3MHz	0.1687 W	0.009	2M72G7D
Part 24E	LTE Band 2	16QAM	3MHz	0.1416 W	0.009	2M74D7W
Part 24E	LTE Band 2	QPSK	5MHz	0.1435 W	0.009	4M50G7D
Part 24E	LTE Band 2	16QAM	5MHz	0.1259 W	0.009	4M50D7W
Part 24E	LTE Band 2	QPSK	10MHz	0.1439 W	0.009	9M16G7D
Part 24E	LTE Band 2	16QAM	10MHz	0.1236 W	0.009	9M12D7W
Part 24E	LTE Band 25	QPSK	1.4MHz	0.1986 W	0.008	1M11G7D
Part 24E	LTE Band 25	16QAM	1.4MHz	0.1581 W	0.008	1M10D7W
Part 24E	LTE Band 25	QPSK	3MHz	0.1923 W	0.008	2M75G7D
Part 24E	LTE Band 25	16QAM	3MHz	0.1683 W	0.008	2M75D7W
Part 24E	LTE Band 25	QPSK	5MHz	0.1963 W	0.009	4M52G7D
Part 24E	LTE Band 25	16QAM	5MHz	0.1671 W	0.009	4M52D7W
Part 24E	LTE Band 25	QPSK	10MHz	0.2104 W	0.008	9M12G7D
Part 24E	LTE Band 25	16QAM	10MHz	0.1754 W	0.008	9M12D7W

1.5 Testing Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.		
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958		
Test Site No.	Sporton Site No.		FCC/IC Registration No.
	TH01-KS	03CH01-KS	149928/4086E-1

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1st 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	
Test Site No.	Sporton Site No.	FCC/IC Registration No.
	03CH07-HY	722060/4086B-1

1.6 Applied Standards

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

- FCC 47 CFR Part 2, 24(E), 27(L), 27(H)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v01
- IC RSS-133 Issue 5
- IC RSS-139 Issue 2
- NOTICE 2012-DRS0126

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.
3. Per the section 2.2.3 of Notice of 2012-DRS0126, " Receivers Excluded from Industry Canada Requirements", only radio communication receivers operating in stand-alone mode within the band 30-960 MHz and scanner receivers are subject to Industry Canada requirements.

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 18000 MHz for LTE Band 4.
2. 30 MHz to 9000 MHz LTE Band 12.
3. 30 MHz to 19000 MHz for LTE Band 2 and LTE Band 25.

Test Modes			
Band		**Radiated TCs**	**Conducted TCs**
LTE Band 4	**BW 1.4MHz**	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 2) Link ■ LTE (RB Size 1, RB Offset 5) Link ■ LTE (RB Size 3, RB Offset 0) Link ■ LTE (RB Size 3, RB Offset 1) Link ■ LTE (RB Size 3, RB Offset 2) Link ■ LTE (RB Size 6, RB Offset 0) Link
	BW 3MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 7) Link ■ LTE (RB Size 1, RB Offset 14) Link ■ LTE (RB Size 8, RB Offset 0) Link ■ LTE (RB Size 8, RB Offset 4) Link ■ LTE (RB Size 8, RB Offset 7) Link ■ LTE (RB Size 15, RB Offset 0) Link
	BW 5MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 12) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 12, RB Offset 0) Link ■ LTE (RB Size 12, RB Offset 6) Link ■ LTE (RB Size 12, RB Offset 11) Link ■ LTE (RB Size 25, RB Offset 0) Link
	BW 10MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 1, RB Offset 49) Link ■ LTE (RB Size 25, RB Offset 0) Link ■ LTE (RB Size 25, RB Offset 12) Link ■ LTE (RB Size 25, RB Offset 24) Link ■ LTE (RB Size 50, RB Offset 0) Link

Test Modes			
Band		Radiated TCs	Conducted TCs
LTE Band 12	BW 1.4MHz	■ LTE (RB Size 1, RB Offset 5) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 2) Link ■ LTE (RB Size 1, RB Offset 5) Link ■ LTE (RB Size 3, RB Offset 0) Link ■ LTE (RB Size 3, RB Offset 1) Link ■ LTE (RB Size 3, RB Offset 2) Link ■ LTE (RB Size 6, RB Offset 0) Link
	BW 3MHz	■ LTE (RB Size 1, RB Offset 7) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 7) Link ■ LTE (RB Size 1, RB Offset 14) Link ■ LTE (RB Size 8, RB Offset 0) Link ■ LTE (RB Size 8, RB Offset 4) Link ■ LTE (RB Size 8, RB Offset 7) Link ■ LTE (RB Size 15, RB Offset 0) Link
	BW 5MHz	■ LTE (RB Size 1, RB Offset 12) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 12) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 12, RB Offset 0) Link ■ LTE (RB Size 12, RB Offset 6) Link ■ LTE (RB Size 12, RB Offset 11) Link ■ LTE (RB Size 25, RB Offset 0) Link
	BW 10MHz	■ LTE (RB Size 1, RB Offset 49) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 1, RB Offset 49) Link ■ LTE (RB Size 25, RB Offset 0) Link ■ LTE (RB Size 25, RB Offset 12) Link ■ LTE (RB Size 25, RB Offset 24) Link ■ LTE (RB Size 50, RB Offset 0) Link

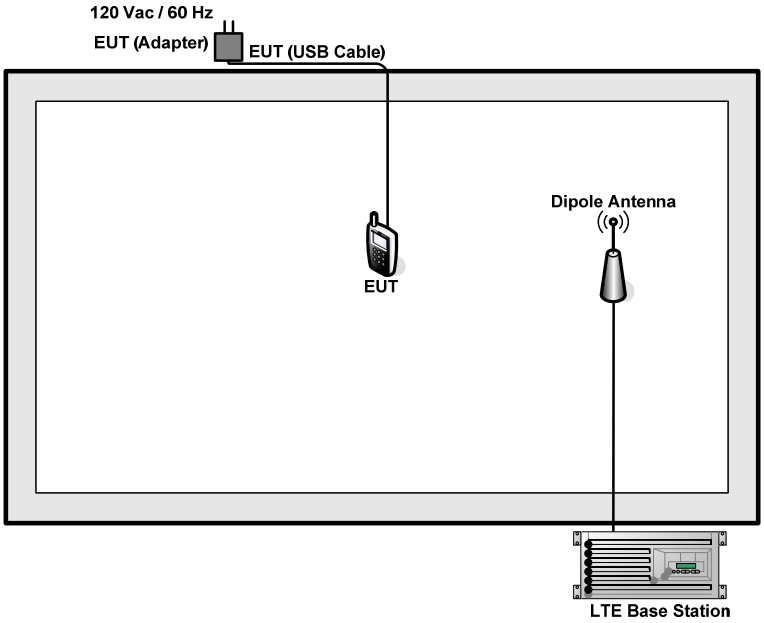
Test Modes			
Band		Radiated TCs	Conducted TCs
LTE Band 2	BW 1.4MHz	■ LTE (RB Size 3, RB Offset 2) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 2) Link ■ LTE (RB Size 1, RB Offset 5) Link ■ LTE (RB Size 3, RB Offset 0) Link ■ LTE (RB Size 3, RB Offset 1) Link ■ LTE (RB Size 3, RB Offset 2) Link ■ LTE (RB Size 6, RB Offset 0) Link
	BW 3MHz	■ LTE (RB Size 1, RB Offset 7) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 7) Link ■ LTE (RB Size 1, RB Offset 14) Link ■ LTE (RB Size 8, RB Offset 0) Link ■ LTE (RB Size 8, RB Offset 4) Link ■ LTE (RB Size 8, RB Offset 7) Link ■ LTE (RB Size 15, RB Offset 0) Link
	BW 5MHz	■ LTE (RB Size 1, RB Offset 12) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 12) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 12, RB Offset 0) Link ■ LTE (RB Size 12, RB Offset 6) Link ■ LTE (RB Size 12, RB Offset 11) Link ■ LTE (RB Size 25, RB Offset 0) Link
	BW 10MHz	■ LTE (RB Size 1, RB Offset 24) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 1, RB Offset 49) Link ■ LTE (RB Size 25, RB Offset 0) Link ■ LTE (RB Size 25, RB Offset 12) Link ■ LTE (RB Size 25, RB Offset 24) Link ■ LTE (RB Size 50, RB Offset 0) Link

Test Modes			
Band		Radiated TCs	Conducted TCs
LTE Band 25	BW 1.4MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 2) Link ■ LTE (RB Size 1, RB Offset 5) Link ■ LTE (RB Size 3, RB Offset 0) Link ■ LTE (RB Size 3, RB Offset 1) Link ■ LTE (RB Size 3, RB Offset 2) Link ■ LTE (RB Size 6, RB Offset 0) Link
	BW 3MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 7) Link ■ LTE (RB Size 1, RB Offset 14) Link ■ LTE (RB Size 8, RB Offset 0) Link ■ LTE (RB Size 8, RB Offset 4) Link ■ LTE (RB Size 8, RB Offset 7) Link ■ LTE (RB Size 15, RB Offset 0) Link
	BW 5MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 12) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 12, RB Offset 0) Link ■ LTE (RB Size 12, RB Offset 6) Link ■ LTE (RB Size 12, RB Offset 11) Link ■ LTE (RB Size 25, RB Offset 0) Link
	BW 10MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 1, RB Offset 49) Link ■ LTE (RB Size 25, RB Offset 0) Link ■ LTE (RB Size 25, RB Offset 12) Link ■ LTE (RB Size 25, RB Offset 24) Link ■ LTE (RB Size 50, RB Offset 0) Link

Note:

1. For conducted test, both two Modulations (QPSK and 16QAM) are tested. For RSE, only the maximum RF output power level is chosen.
2. From conducted spurious emission measurement, the modulation related spurious emission out of the band is not identified. Since MPR is implemented, 1RB-QPSK results in highest RF power, therefore it's chosen for RSE measurement.
3. Due to LTE Band 2 (uplink: 1850.7 ~ 1909.3 MHz) and LTE Band 25 (uplink: 1850.7 ~ 1914.3 MHz) have overlapped spectrum allocation, so only additionally evaluated LTE Band 2 high channel for Conducted TCs.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	R&S	CMW500	N/A	N/A	Unshielded, 1.8 m
3.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and 10dB attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and 10dB attenuator factor.

Offset = RF cable loss + attenuator factor.

Following table shows an offset computation example with cable loss 5.2 dB.

Example :

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

= 5.2 + 10 = 15.2 (dB)

3 Test Result

3.1 Maximum Output Power and Effective Radiated Power/Effective Isotropic Radiated Power Measurement

3.1.1 Limit

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 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 band 25, 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 RF output of the transmitter was connected to base station simulator.
2. Set EUT at maximum average power by base station simulator.
3. Measure lowest, middle, and highest channels for each bandwidth and different modulation.

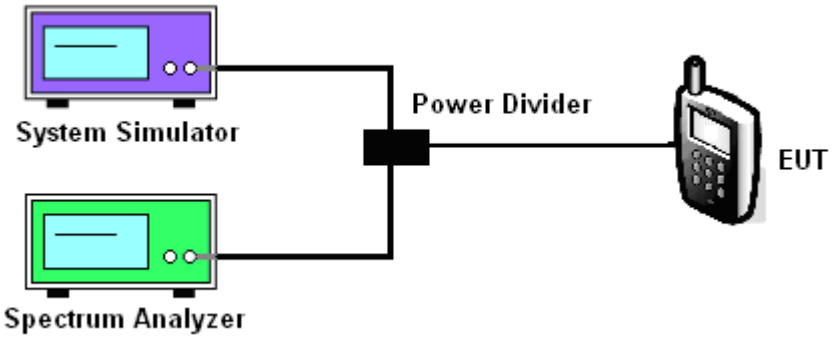
For Effective Radiated Power and Effective Isotropic Radiated Power Measurement:

1. The EUT was placed on an non-conductive rotating platform with 0.8 meter height in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m.
2. During the measurement, the EUT was enforced in maximum power. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
3. Effective Radiated Power (ERP) and Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through

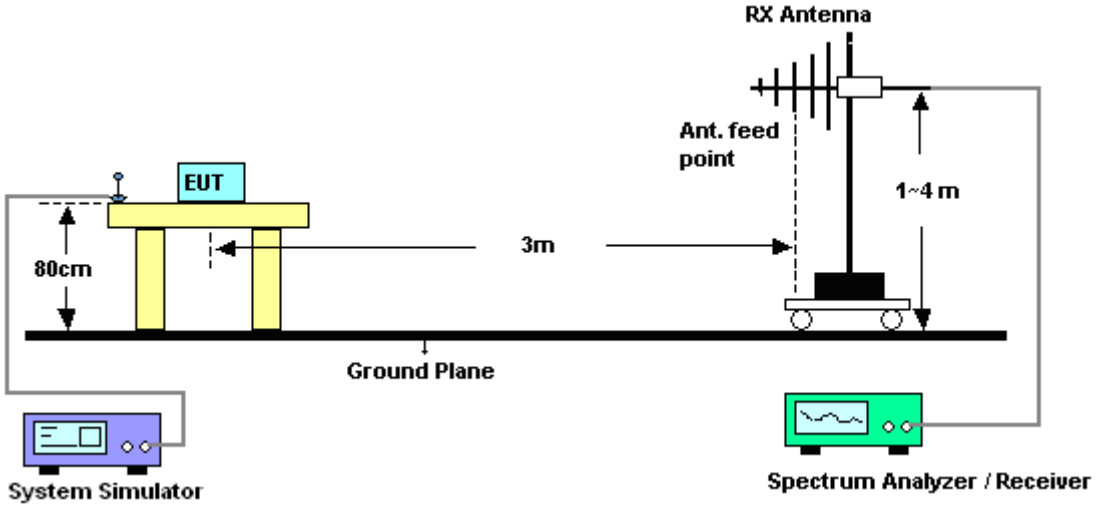
raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP= LVL + Correction factor.

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 4	1.4MHz	19957	1710.7	QPSK	1	0	22.99	0.1991
					1	2	22.92	0.1959
					1	5	22.92	0.1959
					3	0	22.97	0.1982
					3	1	22.97	0.1982
					3	2	22.91	0.1954
					6	0	21.84	0.1528
				16-QAM	1	0	21.98	0.1578
					1	2	21.93	0.1560
					1	5	21.97	0.1574
					3	0	21.96	0.1570
					3	1	21.90	0.1549
					3	2	21.85	0.1531
					6	0	20.83	0.1211
		20175	1732.5	QPSK	1	0	22.85	0.1928
					1	2	22.82	0.1914
					1	5	22.82	0.1914
					3	0	22.78	0.1897
					3	1	22.67	0.1849
					3	2	22.77	0.1892
					6	0	22.11	0.1626
				16-QAM	1	0	21.93	0.1560
					1	2	21.87	0.1538
					1	5	21.88	0.1542
					3	0	21.89	0.1545
					3	1	21.91	0.1552
					3	2	21.81	0.1517
					6	0	20.86	0.1219
		20393	1754.3	QPSK	1	0	22.96	0.1977
					1	2	22.92	0.1959
					1	5	22.88	0.1941
					3	0	22.87	0.1936
					3	1	22.91	0.1954
					3	2	22.89	0.1945
					6	0	22.26	0.1683
				16-QAM	1	0	22.13	0.1633
					1	2	22.01	0.1589
					1	5	22.04	0.1600
					3	0	22.01	0.1589
					3	1	22.08	0.1614
					3	2	22.04	0.1600
					6	0	21.07	0.1279

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	22.95	0.1972
					1	7	22.87	0.1936
					1	14	22.75	0.1884
					8	0	21.88	0.1542
					8	4	21.98	0.1578
					8	7	21.89	0.1545
					15	0	21.97	0.1574
				16-QAM	1	0	21.88	0.1542
					1	7	21.84	0.1528
					1	14	21.79	0.1510
					8	0	20.75	0.1189
					8	4	20.83	0.1211
					8	7	20.76	0.1191
					15	0	20.66	0.1164
		20175	1732.5	QPSK	1	0	22.93	0.1963
					1	7	22.92	0.1959
					1	14	22.90	0.1950
					8	0	21.85	0.1531
					8	4	21.98	0.1578
					8	7	21.88	0.1542
					15	0	21.86	0.1535
				16-QAM	1	0	21.83	0.1524
					1	7	21.82	0.1521
					1	14	21.82	0.1521
					8	0	20.74	0.1186
					8	4	20.89	0.1227
					8	7	20.81	0.1205
					15	0	20.85	0.1216
		20385	1753.5	QPSK	1	0	22.99	0.1991
					1	7	22.97	0.1982
					1	14	22.94	0.1968
					8	0	22.28	0.1690
					8	4	22.09	0.1618
					8	7	22.04	0.1600
					15	0	22.17	0.1648
				16-QAM	1	0	22.17	0.1648
					1	7	22.16	0.1644
					1	14	21.96	0.1570
					8	0	21.13	0.1297
					8	4	20.96	0.1247
					8	7	21.00	0.1259
					15	0	21.13	0.1297

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	22.95	0.1972
					1	12	22.89	0.1945
					1	24	22.90	0.1950
					12	0	21.97	0.1574
					12	6	21.85	0.1531
					12	11	21.86	0.1535
					25	0	21.80	0.1514
				16-QAM	1	0	22.11	0.1626
					1	12	22.10	0.1622
					1	24	21.91	0.1552
					12	0	20.90	0.1230
					12	6	20.87	0.1222
					12	11	20.81	0.1205
					25	0	20.75	0.1189
		20175	1732.5	QPSK	1	0	22.89	0.1945
					1	12	22.82	0.1914
					1	24	22.86	0.1932
					12	0	21.68	0.1472
					12	6	21.84	0.1528
					12	11	21.84	0.1528
					25	0	21.88	0.1542
				16-QAM	1	0	21.78	0.1507
					1	12	21.75	0.1496
					1	24	21.77	0.1503
					12	0	20.87	0.1222
					12	6	20.97	0.1250
					12	11	20.84	0.1213
					25	0	20.82	0.1208
		20375	1752.5	QPSK	1	0	23.03	0.2009
					1	12	23.02	0.2004
					1	24	23.01	0.2000
					12	0	22.14	0.1637
					12	6	22.10	0.1622
					12	11	22.11	0.1626
					25	0	22.08	0.1614
				16-QAM	1	0	22.11	0.1626
					1	12	22.06	0.1607
					1	24	22.07	0.1611
					12	0	21.06	0.1276
					12	6	21.08	0.1282
					12	11	21.08	0.1282
					25	0	20.98	0.1253

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	QPSK	1	0	22.96	0.1977
					1	24	22.94	0.1968
					1	49	22.81	0.1910
					25	0	22.10	0.1622
					25	12	21.99	0.1581
					25	24	21.95	0.1567
					50	0	21.79	0.1510
				16-QAM	1	0	22.12	0.1629
					1	24	22.10	0.1622
					1	49	21.92	0.1556
					25	0	20.79	0.1199
					25	12	20.76	0.1191
					25	24	20.80	0.1202
					50	0	20.66	0.1164
		20175	1732.5	QPSK	1	0	23.03	0.2009
					1	24	22.96	0.1977
					1	49	23.01	0.2000
					25	0	21.82	0.1521
					25	12	21.68	0.1472
					25	24	21.70	0.1479
					50	0	21.61	0.1449
				16-QAM	1	0	21.89	0.1545
					1	24	21.81	0.1517
					1	49	21.82	0.1521
					25	0	20.72	0.1180
					25	12	20.58	0.1143
					25	24	20.69	0.1172
					50	0	20.53	0.1130
		20350	1750	QPSK	1	0	23.02	0.2004
					1	24	22.98	0.1986
					1	49	23.00	0.1995
					25	0	22.15	0.1641
					25	12	22.02	0.1592
					25	24	21.94	0.1563
					50	0	21.91	0.1552
				16-QAM	1	0	22.29	0.1694
					1	24	22.27	0.1687
					1	49	22.28	0.1690
					25	0	21.01	0.1262
					25	12	20.96	0.1247
					25	24	21.00	0.1259
					50	0	20.86	0.1219

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	23.33	0.2153
					1	2	23.40	0.2188
					1	5	23.44	0.2208
					3	0	23.35	0.2163
					3	1	23.38	0.2178
					3	2	23.37	0.2173
					6	0	22.44	0.1754
				16-QAM	1	0	22.38	0.1730
					1	2	22.43	0.1750
					1	5	22.45	0.1758
					3	0	22.44	0.1754
					3	1	22.42	0.1746
					3	2	22.41	0.1742
					6	0	21.42	0.1387
		23095	707.5	QPSK	1	0	22.47	0.1766
					1	2	22.62	0.1828
					1	5	22.49	0.1774
					3	0	22.60	0.1820
					3	1	22.56	0.1803
					3	2	22.51	0.1782
					6	0	21.72	0.1486
				16-QAM	1	0	22.36	0.1722
					1	2	22.43	0.1750
					1	5	22.39	0.1734
					3	0	22.37	0.1726
					3	1	22.41	0.1742
					3	2	22.42	0.1746
					6	0	21.39	0.1377
		23173	715.3	QPSK	1	0	23.27	0.2123
					1	2	23.29	0.2133
					1	5	23.25	0.2113
					3	0	23.29	0.2133
					3	1	23.31	0.2143
					3	2	23.29	0.2133
					6	0	22.49	0.1774
				16-QAM	1	0	22.44	0.1754
					1	2	22.48	0.1770
					1	5	22.48	0.1770
					3	0	22.42	0.1746
					3	1	22.41	0.1742
					3	2	22.49	0.1774
					6	0	21.44	0.1393

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	23.36	0.2168
					1	7	23.40	0.2188
					1	14	23.22	0.2099
					8	0	22.35	0.1718
					8	4	22.42	0.1746
					8	7	22.31	0.1702
					15	0	22.38	0.1730
				16-QAM	1	0	22.26	0.1683
					1	7	22.47	0.1766
					1	14	22.12	0.1629
					8	0	21.48	0.1406
					8	4	21.37	0.1371
					8	7	21.30	0.1349
					15	0	21.45	0.1396
		23095	707.5	QPSK	1	0	22.41	0.1742
					1	7	22.48	0.1770
					1	14	22.42	0.1746
					8	0	21.50	0.1413
					8	4	21.42	0.1387
					8	7	21.50	0.1413
					15	0	21.47	0.1403
				16-QAM	1	0	22.40	0.1738
					1	7	22.46	0.1762
					1	14	22.45	0.1758
					8	0	21.43	0.1390
					8	4	21.45	0.1396
					8	7	21.49	0.1409
					15	0	21.45	0.1396
		23165	714.5	QPSK	1	0	23.35	0.2163
					1	7	23.40	0.2188
					1	14	23.28	0.2128
					8	0	22.38	0.1730
					8	4	22.44	0.1754
					8	7	22.32	0.1706
					15	0	22.37	0.1726
				16-QAM	1	0	22.36	0.1722
					1	7	22.42	0.1746
					1	14	22.29	0.1694
					8	0	21.42	0.1387
					8	4	21.44	0.1393
					8	7	21.44	0.1393
					15	0	21.48	0.1406

Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 12	5MHz	23035	701.5	QPSK	1	0	23.41	0.2193
					1	12	23.25	0.2113
					1	24	22.91	0.1954
					12	0	22.41	0.1742
					12	6	22.28	0.1690
					12	11	22.18	0.1652
					25	0	22.27	0.1687
				16-QAM	1	0	22.44	0.1754
					1	12	22.38	0.1730
					1	24	21.91	0.1552
					12	0	21.48	0.1406
					12	6	21.41	0.1384
					12	11	21.24	0.1330
					25	0	21.21	0.1321
		23095	707.5	QPSK	1	0	22.40	0.1738
					1	12	22.55	0.1799
					1	24	22.67	0.1849
					12	0	21.39	0.1377
					12	6	21.43	0.1390
					12	11	21.61	0.1449
					25	0	21.48	0.1406
				16-QAM	1	0	21.32	0.1355
					1	12	21.41	0.1384
					1	24	21.46	0.1400
					12	0	20.47	0.1114
					12	6	20.58	0.1143
					12	11	20.67	0.1167
					25	0	20.64	0.1159
		23155	713.5	QPSK	1	0	23.13	0.2056
					1	12	23.43	0.2203
					1	24	23.25	0.2113
					12	0	22.32	0.1706
					12	6	22.40	0.1738
					12	11	22.43	0.1750
					25	0	22.44	0.1754
				16-QAM	1	0	22.35	0.1718
					1	12	22.35	0.1718
					1	24	22.41	0.1742
					12	0	21.31	0.1352
					12	6	21.43	0.1390
					12	11	21.41	0.1384
					25	0	21.34	0.1361

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	QPSK	1	0	23.42	0.2198
					1	24	22.95	0.1972
					1	49	22.75	0.1884
					25	0	22.25	0.1679
					25	12	21.91	0.1552
					25	24	21.63	0.1455
					50	0	21.88	0.1542
				16-QAM	1	0	22.42	0.1746
					1	24	22.12	0.1629
					1	49	21.75	0.1496
					25	0	21.23	0.1327
					25	12	20.82	0.1208
					25	24	20.75	0.1189
					50	0	20.86	0.1219
		23095	707.5	QPSK	1	0	22.85	0.1928
					1	24	22.54	0.1795
					1	49	23.38	0.2178
					25	0	21.59	0.1442
					25	12	21.52	0.1419
					25	24	21.83	0.1524
					50	0	21.71	0.1483
				16-QAM	1	0	21.84	0.1528
					1	24	21.57	0.1435
					1	49	22.46	0.1762
					25	0	20.57	0.1140
					25	12	20.50	0.1122
					25	24	20.75	0.1189
					50	0	20.61	0.1151
		23130	711	QPSK	1	0	22.51	0.1782
					1	24	23.19	0.2084
					1	49	23.47	0.2223
					25	0	22.49	0.1774
					25	12	22.09	0.1618
					25	24	22.49	0.1774
					50	0	22.02	0.1592
				16-QAM	1	0	21.51	0.1416
					1	24	22.38	0.1730
					1	49	22.43	0.1750
					25	0	20.38	0.1091
					25	12	21.15	0.1303
					25	24	21.48	0.1406
					50	0	21.10	0.1288

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	23.15	0.2065
					1	2	23.19	0.2084
					1	5	23.28	0.2128
					3	0	23.09	0.2037
					3	1	23.20	0.2089
					3	2	23.28	0.2128
					6	0	22.36	0.1722
				16-QAM	1	0	22.02	0.1592
					1	2	22.20	0.1660
					1	5	22.19	0.1656
					3	0	22.16	0.1644
					3	1	22.25	0.1679
					3	2	22.35	0.1718
					6	0	21.33	0.1358
		18900	1880	QPSK	1	0	23.32	0.2148
					1	2	23.27	0.2123
					1	5	23.27	0.2123
					3	0	23.23	0.2104
					3	1	23.26	0.2118
					3	2	23.35	0.2163
					6	0	22.43	0.1750
				16-QAM	1	0	22.25	0.1679
					1	2	22.29	0.1694
					1	5	22.33	0.1710
					3	0	22.29	0.1694
					3	1	22.35	0.1718
					3	2	22.36	0.1722
					6	0	21.32	0.1355
		19193	1909.3	QPSK	1	0	23.16	0.2070
					1	2	23.17	0.2075
					1	5	23.00	0.1995
					3	0	23.10	0.2042
					3	1	23.08	0.2032
					3	2	23.02	0.2004
					6	0	22.25	0.1679
				16-QAM	1	0	22.09	0.1618
					1	2	22.06	0.1607
					1	5	22.03	0.1596
					3	0	22.15	0.1641
					3	1	22.11	0.1626
					3	2	22.23	0.1671
					6	0	21.24	0.1330

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	23.12	0.2051
					1	7	23.44	0.2208
					1	14	23.36	0.2168
					8	0	22.32	0.1706
					8	4	22.39	0.1734
					8	7	22.46	0.1762
					15	0	22.31	0.1702
				16-QAM	1	0	22.01	0.1589
					1	7	22.36	0.1722
					1	14	22.29	0.1694
					8	0	21.36	0.1368
					8	4	21.35	0.1365
					8	7	21.47	0.1403
					15	0	21.41	0.1384
		18900	1880	QPSK	1	0	23.34	0.2158
					1	7	23.37	0.2173
					1	14	23.30	0.2138
					8	0	22.34	0.1714
					8	4	22.33	0.1710
					8	7	22.24	0.1675
					15	0	22.26	0.1683
				16-QAM	1	0	22.18	0.1652
					1	7	22.47	0.1766
					1	14	22.26	0.1683
					8	0	21.24	0.1330
					8	4	21.26	0.1337
					8	7	21.29	0.1346
					15	0	21.36	0.1368
		19185	1908.5	QPSK	1	0	23.17	0.2075
					1	7	23.13	0.2056
					1	14	23.03	0.2009
					8	0	22.29	0.1694
					8	4	22.26	0.1683
					8	7	22.19	0.1656
					15	0	22.18	0.1652
				16-QAM	1	0	22.20	0.1660
					1	7	22.23	0.1671
					1	14	21.93	0.1560
					8	0	21.22	0.1324
					8	4	21.13	0.1297
					8	7	21.11	0.1291
					15	0	21.19	0.1315

Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 2	5MHz	18625	1852.5	QPSK	1	0	23.20	0.2089
					1	12	23.44	0.2208
					1	24	23.34	0.2158
					12	0	22.43	0.1750
					12	6	22.38	0.1730
					12	11	22.39	0.1734
					25	0	22.37	0.1726
				16-QAM	1	0	22.20	0.1660
					1	12	22.40	0.1738
					1	24	22.35	0.1718
					12	0	21.36	0.1368
					12	6	21.32	0.1355
					12	11	21.37	0.1371
					25	0	21.27	0.1340
		18900	1880	QPSK	1	0	23.30	0.2138
					1	12	23.37	0.2173
					1	24	23.13	0.2056
					12	0	22.35	0.1718
					12	6	22.29	0.1694
					12	11	22.33	0.1710
					25	0	22.24	0.1675
				16-QAM	1	0	22.19	0.1656
					1	12	22.31	0.1702
					1	24	22.07	0.1611
					12	0	21.38	0.1374
					12	6	21.32	0.1355
					12	11	21.35	0.1365
					25	0	21.23	0.1327
		19175	1907.5	QPSK	1	0	23.33	0.2153
					1	12	23.23	0.2104
					1	24	23.07	0.2028
					12	0	22.35	0.1718
					12	6	22.28	0.1690
					12	11	22.26	0.1683
					25	0	22.16	0.1644
				16-QAM	1	0	22.33	0.1710
					1	12	22.21	0.1663
					1	24	21.93	0.1560
					12	0	21.44	0.1393
					12	6	21.26	0.1337
					12	11	21.22	0.1324
					25	0	21.09	0.1285

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	QPSK	1	0	23.28	0.2128
					1	24	23.40	0.2188
					1	49	23.32	0.2148
					25	0	22.45	0.1758
					25	12	22.44	0.1754
					25	24	22.36	0.1722
					50	0	22.25	0.1679
				16-QAM	1	0	22.30	0.1698
					1	24	22.40	0.1738
					1	49	22.37	0.1726
					25	0	21.41	0.1384
					25	12	21.34	0.1361
					25	24	21.33	0.1358
					50	0	21.22	0.1324
		18900	1880	QPSK	1	0	23.32	0.2148
					1	24	23.35	0.2163
					1	49	23.30	0.2138
					25	0	22.40	0.1738
					25	12	22.30	0.1698
					25	24	22.18	0.1652
					50	0	22.21	0.1663
				16-QAM	1	0	22.30	0.1698
					1	24	22.32	0.1706
					1	49	22.09	0.1618
					25	0	21.47	0.1403
					25	12	21.28	0.1343
					25	24	21.26	0.1337
					50	0	21.25	0.1334
		19150	1905	QPSK	1	0	23.28	0.2128
					1	24	23.42	0.2198
					1	49	23.07	0.2028
					25	0	22.49	0.1774
					25	12	22.43	0.1750
					25	24	22.25	0.1679
					50	0	22.28	0.1690
				16-QAM	1	0	22.18	0.1652
					1	24	22.38	0.1730
					1	49	22.09	0.1618
					25	0	21.38	0.1374
					25	12	21.36	0.1368
					25	24	21.24	0.1330
					50	0	21.35	0.1365

Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 25	1.4MHz	26047	1850.7	QPSK	1	0	23.32	0.2148
					1	2	23.28	0.2128
					1	5	23.18	0.2080
					3	0	23.20	0.2089
					3	1	23.20	0.2089
					3	2	23.22	0.2099
					6	0	22.35	0.1718
				16-QAM	1	0	22.25	0.1679
					1	2	22.18	0.1652
					1	5	22.14	0.1637
					3	0	22.21	0.1663
					3	1	22.18	0.1652
					3	2	22.22	0.1667
					6	0	21.34	0.1361
		26365	1882.5	QPSK	1	0	23.25	0.2113
					1	2	23.16	0.2070
					1	5	23.04	0.2014
					3	0	23.11	0.2046
					3	1	23.17	0.2075
					3	2	23.12	0.2051
					6	0	22.25	0.1679
				16-QAM	1	0	22.25	0.1679
					1	2	22.19	0.1656
					1	5	22.17	0.1648
					3	0	22.15	0.1641
					3	1	22.12	0.1629
					3	2	22.10	0.1622
					6	0	21.26	0.1337
		26683	1914.3	QPSK	1	0	23.17	0.2075
					1	2	23.15	0.2065
					1	5	23.16	0.2070
					3	0	23.15	0.2065
					3	1	23.09	0.2037
					3	2	23.14	0.2061
					6	0	22.25	0.1679
				16-QAM	1	0	22.21	0.1663
					1	2	22.19	0.1656
					1	5	22.11	0.1626
					3	0	22.11	0.1626
					3	1	22.18	0.1652
					3	2	22.17	0.1648
					6	0	21.28	0.1343

Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 25	3MHz	26055	1851.5	QPSK	1	0	23.27	0.2123
					1	7	23.21	0.2094
					1	14	23.15	0.2065
					8	0	22.35	0.1718
					8	4	22.33	0.1710
					8	7	22.25	0.1679
					15	0	22.27	0.1687
				16-QAM	1	0	22.23	0.1671
					1	7	22.13	0.1633
					1	14	22.19	0.1656
					8	0	21.32	0.1355
					8	4	21.26	0.1337
					8	7	21.32	0.1355
					15	0	21.31	0.1352
		26365	1882.5	QPSK	1	0	23.25	0.2113
					1	7	23.19	0.2084
					1	14	23.02	0.2004
					8	0	22.33	0.1710
					8	4	22.08	0.1614
					8	7	22.14	0.1637
					15	0	22.21	0.1663
				16-QAM	1	0	22.21	0.1663
					1	7	22.19	0.1656
					1	14	22.02	0.1592
					8	0	21.20	0.1318
					8	4	21.05	0.1274
					8	7	21.13	0.1297
					15	0	21.20	0.1318
		26675	1913.5	QPSK	1	0	23.15	0.2065
					1	7	23.13	0.2056
					1	14	23.13	0.2056
					8	0	22.19	0.1656
					8	4	22.16	0.1644
					8	7	22.15	0.1641
					15	0	22.09	0.1618
				16-QAM	1	0	22.15	0.1641
					1	7	22.13	0.1633
					1	14	22.10	0.1622
					8	0	21.19	0.1315
					8	4	21.16	0.1306
					8	7	21.14	0.1300
					15	0	21.28	0.1343

Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 25	5MHz	26065	1852.5	QPSK	1	0	23.24	0.2109
					1	12	23.23	0.2104
					1	24	23.06	0.2023
					12	0	22.29	0.1694
					12	6	22.24	0.1675
					12	11	22.22	0.1667
					25	0	22.21	0.1663
				16-QAM	1	0	22.29	0.1694
					1	12	22.20	0.1660
					1	24	22.27	0.1687
					12	0	21.33	0.1358
					12	6	21.29	0.1346
					12	11	21.23	0.1327
					25	0	21.13	0.1297
		26365	1882.5	QPSK	1	0	23.33	0.2153
					1	12	23.14	0.2061
					1	24	22.93	0.1963
					12	0	22.35	0.1718
					12	6	22.20	0.1660
					12	11	22.16	0.1644
					25	0	22.24	0.1675
				16-QAM	1	0	22.16	0.1644
					1	12	22.13	0.1633
					1	24	22.08	0.1614
					12	0	21.37	0.1371
					12	6	21.24	0.1330
					12	11	21.26	0.1337
					25	0	21.14	0.1300
		26665	1912.5	QPSK	1	0	23.13	0.2056
					1	12	23.12	0.2051
					1	24	23.08	0.2032
					12	0	22.25	0.1679
					12	6	22.23	0.1671
					12	11	22.22	0.1667
					25	0	22.09	0.1618
				16-QAM	1	0	22.09	0.1618
					1	12	22.06	0.1607
					1	24	22.03	0.1596
					12	0	21.33	0.1358
					12	6	21.31	0.1352
					12	11	21.30	0.1349
					25	0	21.14	0.1300

Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 25	10MHz	26090	1855	QPSK	1	0	23.25	0.2113
					1	24	23.17	0.2075
					1	49	23.03	0.2009
					25	0	22.34	0.1714
					25	12	22.22	0.1667
					25	24	22.12	0.1629
					50	0	22.09	0.1618
				16-QAM	1	0	22.27	0.1687
					1	24	22.24	0.1675
					1	49	22.11	0.1626
					25	0	21.15	0.1303
					25	12	21.19	0.1315
					25	24	21.06	0.1276
					50	0	21.01	0.1262
		26365	1882.5	QPSK	1	0	23.35	0.2163
					1	24	23.33	0.2153
					1	49	23.06	0.2023
					25	0	22.34	0.1714
					25	12	22.18	0.1652
					25	24	21.95	0.1567
					50	0	22.10	0.1622
				16-QAM	1	0	22.37	0.1726
					1	24	22.31	0.1702
					1	49	22.03	0.1596
					25	0	21.38	0.1374
					25	12	21.14	0.1300
					25	24	21.04	0.1271
					50	0	21.10	0.1288
		26640	1910	QPSK	1	0	23.32	0.2148
					1	24	23.27	0.2123
					1	49	23.26	0.2118
					25	0	22.27	0.1687
					25	12	22.15	0.1641
					25	24	22.28	0.1690
					50	0	22.06	0.1607
				16-QAM	1	0	22.32	0.1706
					1	24	22.22	0.1667
					1	49	22.13	0.1633
					25	0	21.31	0.1352
					25	12	21.13	0.1297
					25	24	21.24	0.1330
					50	0	20.99	0.1256

3.1.6 Test Result of ERP/EIRP

LTE Band 4 Radiated Power EIRP										
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset						
4	1.4	QPSK	1	0	1710.70	-20.51	41.65	21.14	0.1300	H
4	1.4	QPSK	1	0	1732.50	-20.41	42.95	22.54	0.1795	H
4	1.4	QPSK	1	0	1754.30	-19.34	42.28	22.94	0.1968	H
4	1.4	QPSK	1	0	1710.70	-24.82	43.57	18.75	0.0750	V
4	1.4	QPSK	1	0	1732.50	-25.87	45.94	20.07	0.1016	V
4	1.4	QPSK	1	0	1754.30	-26.78	45.2	18.42	0.0695	V
4	1.4	16QAM	1	0	1710.70	-21.31	41.65	20.34	0.1081	H
4	1.4	16QAM	1	0	1732.50	-21.00	42.95	21.95	0.1567	H
4	1.4	16QAM	1	0	1754.30	-21.49	42.28	20.79	0.1199	H
4	1.4	16QAM	1	0	1710.70	-24.56	43.57	19.01	0.0796	V
4	1.4	16QAM	1	0	1732.50	-25.35	45.94	20.59	0.1146	V
4	1.4	16QAM	1	0	1754.30	-25.86	45.2	19.34	0.0859	V
4	3	QPSK	1	0	1711.50	-21.45	41.58	20.13	0.1030	H
4	3	QPSK	1	0	1732.50	-20.38	42.95	22.57	0.1807	H
4	3	QPSK	1	0	1753.50	-18.92	42.12	23.20	0.2089	H
4	3	QPSK	1	0	1711.50	-27.20	43.49	16.29	0.0426	V
4	3	QPSK	1	0	1732.50	-24.63	45.94	21.31	0.1352	V
4	3	QPSK	1	0	1753.50	-23.78	44.94	21.16	0.1306	V
4	3	16QAM	1	0	1711.50	-21.82	41.58	19.76	0.0946	H
4	3	16QAM	1	0	1732.50	-20.52	42.95	22.43	0.1750	H
4	3	16QAM	1	0	1753.50	-19.36	42.12	22.76	0.1888	H
4	3	16QAM	1	0	1711.50	-26.20	43.49	17.29	0.0536	V
4	3	16QAM	1	0	1732.50	-24.04	45.94	21.90	0.1549	V
4	3	16QAM	1	0	1753.50	-24.29	44.94	20.65	0.1161	V

LTE Band 4 Radiated Power EIRP										
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset						
4	5	QPSK	1	0	1712.50	-21.69	41.62	19.93	0.0984	H
4	5	QPSK	1	0	1732.50	-20.58	42.06	21.48	0.1406	H
4	5	QPSK	1	0	1752.50	-18.34	41.73	23.39	0.2183	H
4	5	QPSK	1	0	1712.50	-25.96	43.45	17.49	0.0561	V
4	5	QPSK	1	0	1732.50	-24.99	45.68	20.69	0.1172	V
4	5	QPSK	1	0	1752.50	-23.41	44.88	21.47	0.1403	V
4	5	16QAM	1	0	1712.50	-22.11	41.62	19.51	0.0893	H
4	5	16QAM	1	0	1732.50	-21.26	42.06	20.80	0.1202	H
4	5	16QAM	1	0	1752.50	-19.06	41.73	22.67	0.1849	H
4	5	16QAM	1	0	1712.50	-27.68	43.45	15.77	0.0378	V
4	5	16QAM	1	0	1732.50	-25.34	45.68	20.34	0.1081	V
4	5	16QAM	1	0	1752.50	-23.96	44.88	20.92	0.1236	V
4	10	QPSK	1	0	1715.00	-21.44	42.12	20.68	0.1169	H
4	10	QPSK	1	0	1732.50	-21.34	42.06	20.72	0.1180	H
4	10	QPSK	1	0	1750.00	-18.97	41.57	22.60	0.1820	H
4	10	QPSK	1	0	1715.00	-25.66	44.81	19.15	0.0822	V
4	10	QPSK	1	0	1732.50	-25.80	45.68	19.88	0.0973	V
4	10	QPSK	1	0	1750.00	-23.19	44.74	21.55	0.1429	V
4	10	16QAM	1	0	1715.00	-22.08	42.12	20.04	0.1009	H
4	10	16QAM	1	0	1732.50	-22.31	42.06	19.75	0.0944	H
4	10	16QAM	1	0	1750.00	-19.92	41.57	21.65	0.1462	H
4	10	16QAM	1	0	1715.00	-26.29	44.81	18.52	0.0711	V
4	10	16QAM	1	0	1732.50	-26.48	45.68	19.20	0.0832	V
4	10	16QAM	1	0	1750.00	-24.00	44.74	20.74	0.1186	V

LTE Band 12 Radiated Power ERP										
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)	H/V
			RB Size	RB Offset						
12	1.4	QPSK	1	5	699.70	-16.67	32.74	13.92	0.0247	H
12	1.4	QPSK	1	2	707.50	-15.34	32.45	14.96	0.0313	H
12	1.4	QPSK	3	1	715.30	-15.05	32.03	14.83	0.0304	H
12	1.4	QPSK	1	5	699.70	-13.81	36.16	20.20	0.1047	V
12	1.4	QPSK	1	2	707.50	-13.25	36.04	20.64	0.1159	V
12	1.4	QPSK	3	1	715.30	-11.51	35.08	21.42	0.1387	V
12	1.4	16QAM	1	5	699.70	-17.97	32.74	12.62	0.0183	H
12	1.4	16QAM	1	2	707.50	-16.29	32.45	14.01	0.0252	H
12	1.4	16QAM	3	2	715.30	-16.29	32.03	13.59	0.0229	H
12	1.4	16QAM	1	5	699.70	-14.85	36.16	19.16	0.0824	V
12	1.4	16QAM	1	2	707.50	-14.66	36.04	19.23	0.0838	V
12	1.4	16QAM	3	2	715.30	-12.76	35.08	20.17	0.1040	V
12	3	QPSK	1	7	700.50	-16.53	32.8	14.12	0.0258	H
12	3	QPSK	1	7	707.50	-14.75	32.45	15.55	0.0359	H
12	3	QPSK	1	7	714.50	-15.37	32.04	14.52	0.0283	H
12	3	QPSK	1	7	700.50	-14.07	35.94	19.72	0.0938	V
12	3	QPSK	1	7	707.50	-13.65	36.04	20.24	0.1057	V
12	3	QPSK	1	7	714.50	-11.21	35.24	21.88	0.1542	V
12	3	16QAM	1	7	700.50	-17.39	32.8	13.26	0.0212	H
12	3	16QAM	1	7	707.50	-17.40	32.45	12.90	0.0195	H
12	3	16QAM	1	7	714.50	-16.16	32.04	13.73	0.0236	H
12	3	16QAM	1	7	700.50	-14.97	35.94	18.82	0.0762	V
12	3	16QAM	1	7	707.50	-14.72	36.04	19.17	0.0826	V
12	3	16QAM	1	7	714.50	-12.40	35.24	20.69	0.1172	V

LTE Band 12 Radiated Power ERP										
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)	H/V
			RB Size	RB Offset						
12	5	QPSK	1	0	701.50	-15.37	32.83	15.31	0.0340	H
12	5	QPSK	1	24	707.50	-14.16	32.45	16.14	0.0411	H
12	5	QPSK	1	12	713.50	-14.20	32.07	15.72	0.0373	H
12	5	QPSK	1	0	701.50	-13.41	35.94	20.38	0.1091	V
12	5	QPSK	1	24	707.50	-13.51	36.04	20.38	0.1091	V
12	5	QPSK	1	12	713.50	-11.53	35.15	21.47	0.1403	V
12	5	16QAM	1	0	701.50	-15.57	32.83	15.11	0.0324	H
12	5	16QAM	1	24	707.50	-17.04	32.45	13.26	0.0212	H
12	5	16QAM	1	24	713.50	-14.58	32.07	15.34	0.0342	H
12	5	16QAM	1	0	701.50	-14.20	35.94	19.59	0.0910	V
12	5	16QAM	1	24	707.50	-13.95	36.04	19.94	0.0986	V
12	5	16QAM	1	24	713.50	-12.36	35.15	20.64	0.1159	V
12	10	QPSK	1	0	704.00	-15.18	32.82	15.49	0.0354	H
12	10	QPSK	1	49	707.50	-14.99	32.45	15.31	0.0340	H
12	10	QPSK	1	49	711.00	-14.46	32.37	15.76	0.0377	H
12	10	QPSK	1	0	704.00	-11.86	35.87	21.86	0.1535	V
12	10	QPSK	1	49	707.50	-13.17	36.04	20.72	0.1180	V
12	10	QPSK	1	49	711.00	-11.89	35.39	21.35	0.1365	V
12	10	16QAM	1	0	704.00	-15.65	32.82	15.02	0.0318	H
12	10	16QAM	1	49	707.50	-14.96	32.45	15.34	0.0342	H
12	10	16QAM	1	49	711.00	-15.50	32.37	14.72	0.0296	H
12	10	16QAM	1	0	704.00	-12.56	35.87	21.16	0.1306	V
12	10	16QAM	1	49	707.50	-12.37	36.04	21.52	0.1419	V
12	10	16QAM	1	49	711.00	-12.19	35.39	21.05	0.1274	V

LTE Band 2 Radiated Power EIRP										
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset						
2	1.4	QPSK	1	2	1909.3	-20.81	43.59	22.78	0.1897	H
2	1.4	QPSK	1	2	1909.3	-27.08	46.77	19.69	0.0931	V
2	1.4	16QAM	3	2	1909.3	-21.81	43.59	21.78	0.1507	H
2	1.4	16QAM	3	2	1909.3	-28.01	46.77	18.76	0.0752	V
2	3	QPSK	1	0	1908.5	-21.32	43.59	22.27	0.1687	H
2	3	QPSK	1	0	1908.5	-27.04	46.77	19.73	0.0940	V
2	3	16QAM	1	7	1908.5	-22.08	43.59	21.51	0.1416	H
2	3	16QAM	1	7	1908.5	-27.63	46.77	19.14	0.0820	V
2	5	QPSK	1	0	1907.5	-22.02	43.59	21.57	0.1435	H
2	5	QPSK	1	0	1907.5	-27.55	46.77	19.22	0.0836	V
2	5	16QAM	1	0	1907.5	-22.59	43.59	21.00	0.1259	H
2	5	16QAM	1	0	1907.5	-28.27	46.77	18.50	0.0708	V
2	10	QPSK	1	24	1905.0	-22.01	43.59	21.58	0.1439	H
2	10	QPSK	1	24	1905.0	-27.63	46.77	19.14	0.0820	V
2	10	16QAM	1	24	1905.0	-22.67	43.59	20.92	0.1236	H
2	10	16QAM	1	24	1905.0	-28.43	46.77	18.34	0.0682	V

LTE Band 25 Radiated Power EIRP										
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset						
25	1.4	QPSK	1	0	1850.70	-20.94	43.92	22.98	0.1986	H
25	1.4	QPSK	1	0	1882.50	-21.96	44.79	22.83	0.1919	H
25	1.4	QPSK	1	0	1914.30	-21.94	43.75	21.81	0.1517	H
25	1.4	QPSK	1	0	1850.70	-27.88	45.35	17.47	0.0558	V
25	1.4	QPSK	1	0	1882.50	-28.35	46.78	18.43	0.0697	V
25	1.4	QPSK	1	0	1914.30	-28.28	46.74	18.46	0.0701	V
25	1.4	16QAM	1	0	1850.70	-22.85	43.92	21.07	0.1279	H
25	1.4	16QAM	1	0	1882.50	-22.80	44.79	21.99	0.1581	H
25	1.4	16QAM	1	0	1914.30	-22.98	43.75	20.77	0.1194	H
25	1.4	16QAM	1	0	1850.70	-29.61	45.35	15.74	0.0375	V
25	1.4	16QAM	1	0	1882.50	-28.75	46.78	18.03	0.0635	V
25	1.4	16QAM	1	0	1914.30	-28.76	46.74	17.98	0.0628	V
25	3	QPSK	1	0	1851.50	-22.51	43.92	21.41	0.1384	H
25	3	QPSK	1	0	1882.50	-21.95	44.79	22.84	0.1923	H
25	3	QPSK	1	0	1913.50	-22.79	43.75	20.96	0.1247	H
25	3	QPSK	1	0	1851.50	-28.88	45.35	16.47	0.0444	V
25	3	QPSK	1	0	1882.50	-29.33	46.78	17.45	0.0556	V
25	3	QPSK	1	0	1913.50	-28.16	46.74	18.58	0.0721	V
25	3	16QAM	1	0	1851.50	-23.14	43.92	20.78	0.1197	H
25	3	16QAM	1	0	1882.50	-22.53	44.79	22.26	0.1683	H
25	3	16QAM	1	0	1913.50	-23.39	43.75	20.36	0.1086	H
25	3	16QAM	1	0	1851.50	-29.58	45.35	15.77	0.0378	V
25	3	16QAM	1	0	1882.50	-29.88	46.78	16.90	0.0490	V
25	3	16QAM	1	0	1913.50	-28.83	46.74	17.91	0.0618	V

LTE Band 25 Radiated Power EIRP										
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset						
25	5	QPSK	1	0	1852.50	-22.86	43.92	21.06	0.1276	H
25	5	QPSK	1	0	1882.50	-21.86	44.79	22.93	0.1963	H
25	5	QPSK	1	0	1912.50	-22.63	43.75	21.12	0.1294	H
25	5	QPSK	1	0	1852.50	-28.74	45.35	16.61	0.0458	V
25	5	QPSK	1	0	1882.50	-29.36	46.78	17.42	0.0552	V
25	5	QPSK	1	0	1912.50	-28.72	46.74	18.02	0.0634	V
25	5	16QAM	1	0	1852.50	-23.60	43.92	20.32	0.1076	H
25	5	16QAM	1	0	1882.50	-22.56	44.79	22.23	0.1671	H
25	5	16QAM	1	0	1912.50	-23.30	43.75	20.45	0.1109	H
25	5	16QAM	1	0	1852.50	-29.53	45.35	15.82	0.0382	V
25	5	16QAM	1	0	1882.50	-30.30	46.78	16.48	0.0445	V
25	5	16QAM	1	0	1912.50	-29.32	46.74	17.42	0.0552	V
25	10	QPSK	1	0	1855.00	-21.40	43.92	22.52	0.1786	H
25	10	QPSK	1	0	1882.50	-21.56	44.79	23.23	0.2104	H
25	10	QPSK	1	0	1910.00	-21.07	43.75	22.68	0.1854	H
25	10	QPSK	1	0	1855.00	-29.26	45.35	16.09	0.0406	V
25	10	QPSK	1	0	1882.50	-29.86	46.78	16.92	0.0492	V
25	10	QPSK	1	0	1910.00	-29.76	46.74	16.98	0.0499	V
25	10	16QAM	1	0	1855.00	-22.28	43.92	21.64	0.1459	H
25	10	16QAM	1	0	1882.50	-22.35	44.79	22.44	0.1754	H
25	10	16QAM	1	0	1910.00	-22.48	43.75	21.27	0.1340	H
25	10	16QAM	1	0	1855.00	-30.09	45.35	15.26	0.0336	V
25	10	16QAM	1	0	1882.50	-30.41	46.78	16.37	0.0434	V
25	10	16QAM	1	0	1910.00	-31.05	46.74	15.69	0.0371	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.

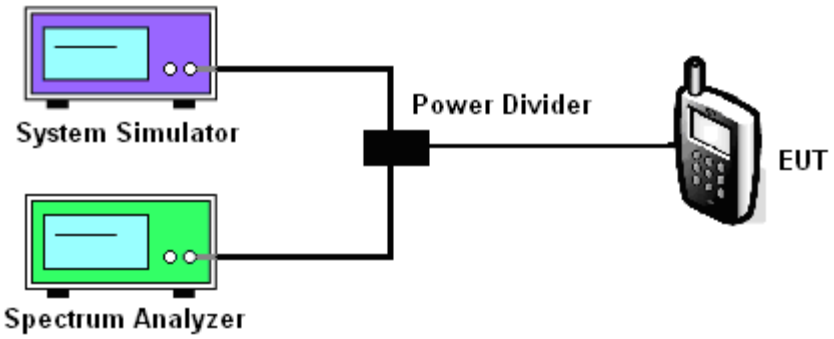
3.2.2 Measuring Instruments

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

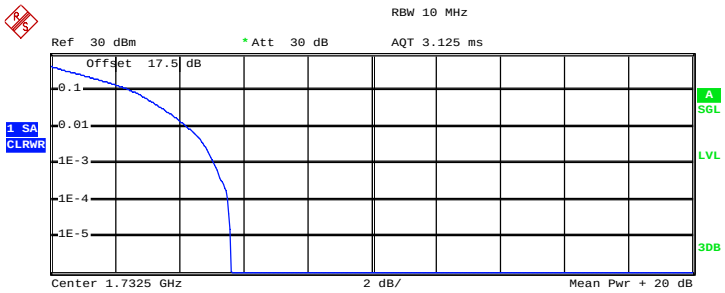


3.2.5 Test Result of Peak-to-Average Ratio

Band	Band Width	Channel	Frequency (MHz)	Modulation	PAR (dB)
LTE Band 4	1.4MHz	20175	1732.5	QPSK	5.08
				16-QAM	6.00
	3MHz	20175	1732.5	QPSK	5.12
				16-QAM	5.84
	5MHz	20175	1732.5	QPSK	5.20
				16-QAM	5.76
	10MHz	20175	1732.5	QPSK	5.32
				16-QAM	6.16
LTE Band 12	1.4MHz	23095	707.5	QPSK	6.08
				16-QAM	6.76
	3MHz	23095	707.5	QPSK	6.04
				16-QAM	6.76
	5MHz	23095	707.5	QPSK	5.96
				16-QAM	6.76
	10MHz	23095	707.5	QPSK	5.76
				16-QAM	6.52
LTE Band 2	1.4MHz	19193	1909.3	QPSK	5.24
				16-QAM	6.04
	3MHz	19185	1908.5	QPSK	5.08
				16-QAM	6.00
	5MHz	19175	1907.5	QPSK	5.36
				16-QAM	6.08
	10MHz	19150	1905	QPSK	5.44
				16-QAM	6.28
LTE Band 25	1.4MHz	26365	1882.5	QPSK	4.84
				16-QAM	5.56
	3MHz	26365	1882.5	QPSK	4.76
				16-QAM	5.56
	5MHz	26365	1882.5	QPSK	5.04
				16-QAM	5.80
	10MHz	26365	1882.5	QPSK	5.24
				16-QAM	6.16

Band:	LTE Band 4	Bandwidth:	1.4MHz

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

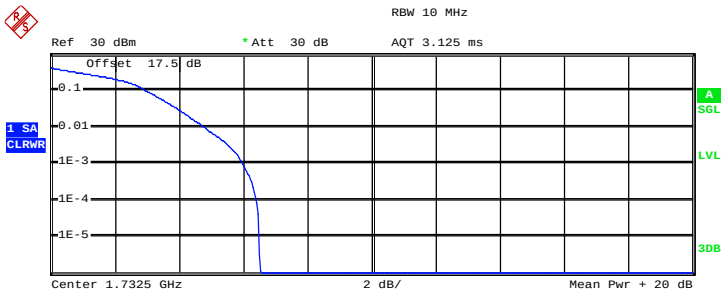


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	21.07 dBm
Peak	26.70 dBm
Crest	5.63 dB
10 %	2.56 dB
1 %	4.28 dB
.1 %	5.08 dB
.01 %	5.52 dB

Date: 20.JAN.2013 15:28:47

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



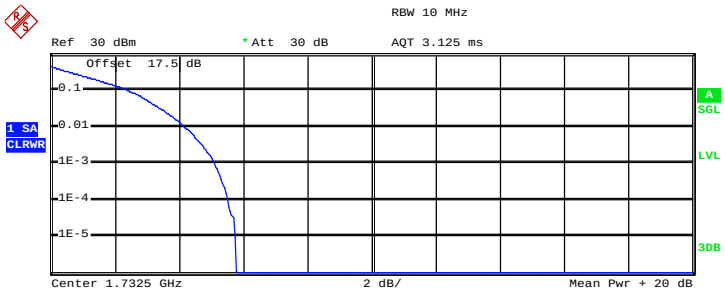
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.05 dBm
Peak	26.56 dBm
Crest	6.51 dB
10 %	3.04 dB
1 %	4.84 dB
.1 %	6.00 dB
.01 %	6.44 dB

Date: 20.JAN.2013 15:28:27

Band:	LTE Band 4	Bandwidth:	3MHz

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

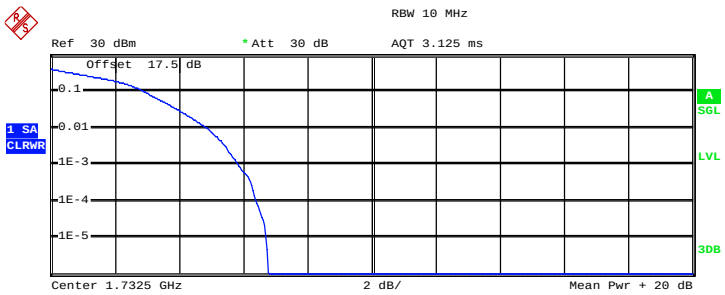


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.93 dBm
Peak	26.70 dBm
Crest	5.77 dB
10 %	2.48 dB
1 %	4.20 dB
.1 %	5.12 dB
.01 %	5.52 dB

Date: 20.JAN.2013 15:27:32

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



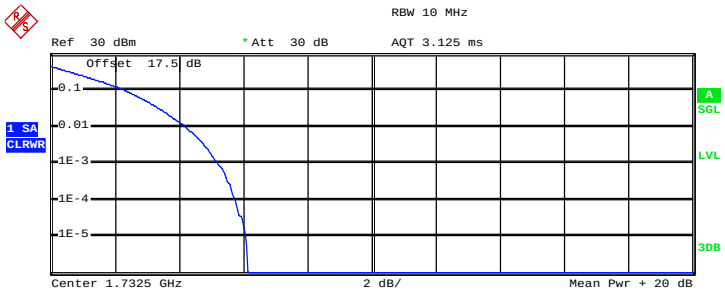
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	19.92 dBm
Peak	26.70 dBm
Crest	6.78 dB
10 %	2.96 dB
1 %	4.88 dB
.1 %	5.84 dB
.01 %	6.44 dB

Date: 20.JAN.2013 15:27:52

Band:	LTE Band 4	Bandwidth:	5MHz

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

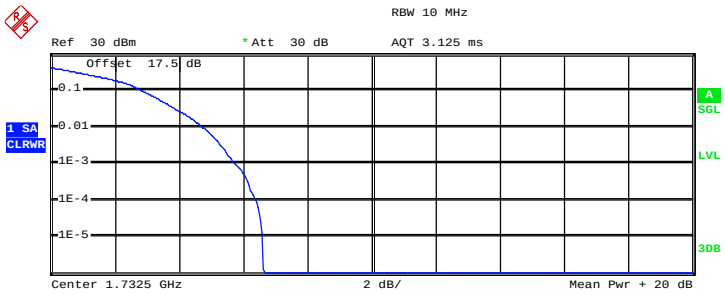


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.90 dBm
Peak	27.05 dBm
Crest	6.15 dB
10 %	2.36 dB
1 %	4.24 dB
.1 %	5.20 dB
.01 %	5.76 dB

Date: 20.JAN.2013 15:26:46

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



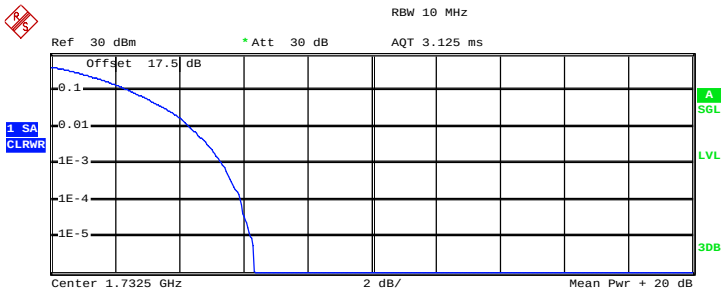
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	19.99 dBm
Peak	26.63 dBm
Crest	6.63 dB
10 %	2.92 dB
1 %	4.76 dB
.1 %	5.76 dB
.01 %	6.40 dB

Date: 20.JAN.2013 15:26:28

Band:	LTE Band 4	Bandwidth:	10MHz

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

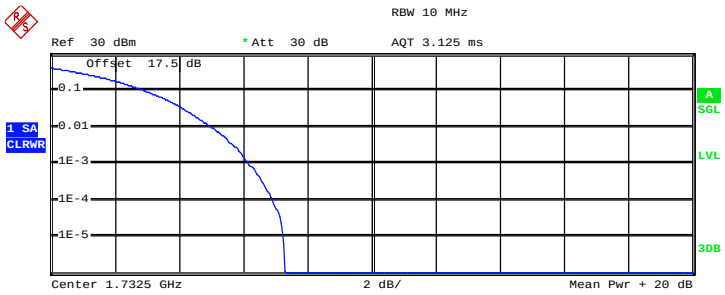


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.42 dBm
Peak	26.77 dBm
Crest	6.35 dB
10 %	2.52 dB
1 %	4.36 dB
.1 %	5.32 dB
.01 %	5.92 dB

Date: 20.JAN.2013 15:25:08

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



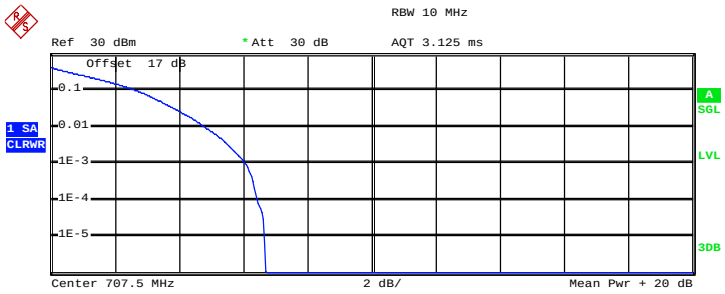
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	19.39 dBm
Peak	26.70 dBm
Crest	7.31 dB
10 %	3.00 dB
1 %	5.04 dB
.1 %	6.16 dB
.01 %	6.92 dB

Date: 20.JAN.2013 15:24:49

Band:	LTE Band 12	Bandwidth:	1.4MHz

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

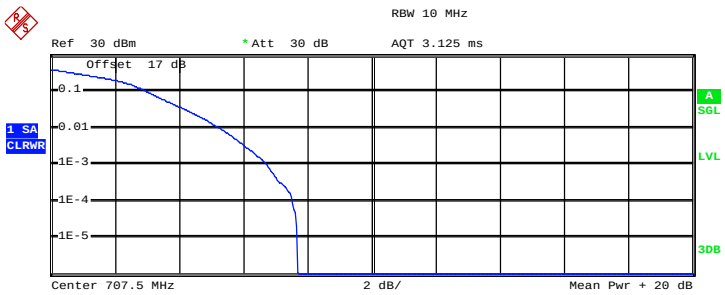


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.79 dBm
Peak	27.47 dBm
Crest	6.68 dB
10 %	2.72 dB
1 %	4.84 dB
.1 %	6.08 dB
.01 %	6.44 dB

Date: 20.JAN.2013 16:41:42

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



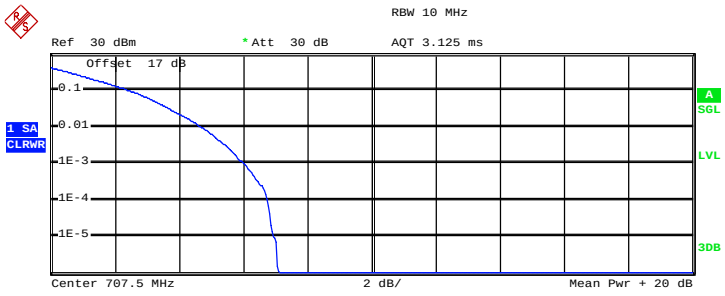
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	19.92 dBm
Peak	27.61 dBm
Crest	7.69 dB
10 %	3.04 dB
1 %	5.28 dB
.1 %	6.76 dB
.01 %	7.56 dB

Date: 20.JAN.2013 16:41:25

Band:	LTE Band 12	Bandwidth:	3MHz

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

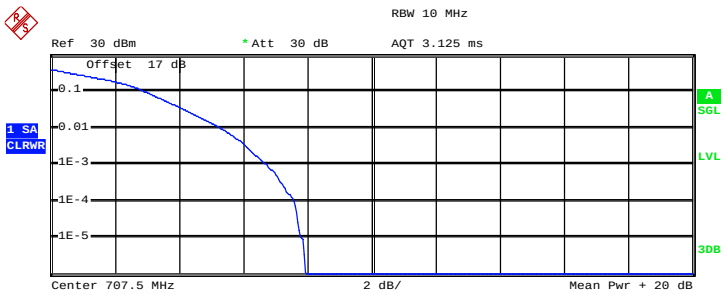


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.61 dBm
Peak	27.68 dBm
Crest	7.08 dB
10 %	2.52 dB
1 %	4.72 dB
.1 %	6.04 dB
.01 %	6.76 dB

Date: 20.JAN.2013 16:42:29

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



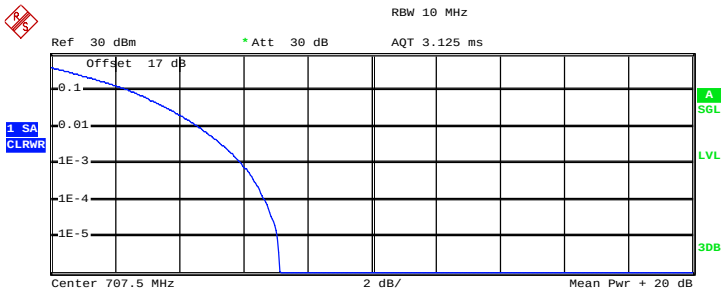
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	19.68 dBm
Peak	27.61 dBm
Crest	7.93 dB
10 %	3.00 dB
1 %	5.36 dB
.1 %	6.76 dB
.01 %	7.60 dB

Date: 20.JAN.2013 16:42:13

Band:	LTE Band 12	Bandwidth:	5MHz

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

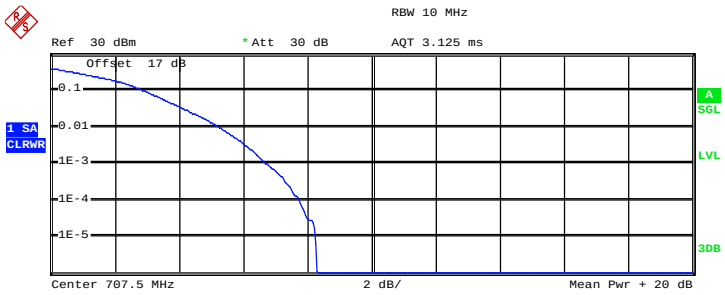


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.62 dBm
Peak	27.75 dBm
Crest	7.13 dB
10 %	2.52 dB
1 %	4.64 dB
.1 %	5.96 dB
.01 %	6.68 dB

Date: 20.JAN.2013 16:43:07

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



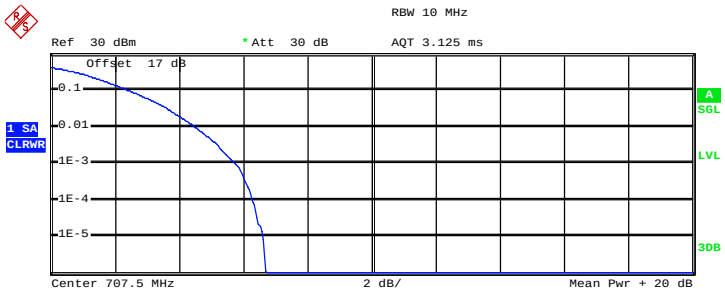
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	19.61 dBm
Peak	27.90 dBm
Crest	8.29 dB
10 %	2.96 dB
1 %	5.28 dB
.1 %	6.76 dB
.01 %	7.76 dB

Date: 20.JAN.2013 16:43:28

Band:	LTE Band 12	Bandwidth:	10MHz

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

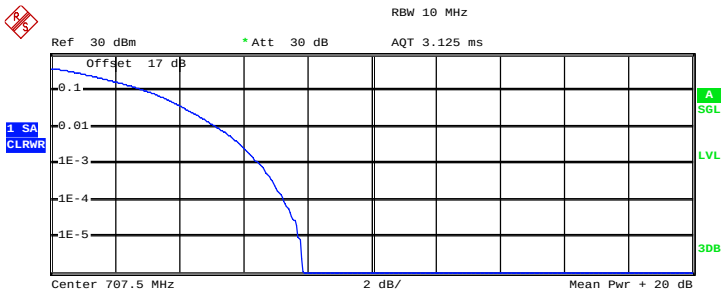


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.29 dBm
Peak	26.98 dBm
Crest	6.69 dB
10 %	2.52 dB
1 %	4.52 dB
.1 %	5.76 dB
.01 %	6.32 dB

Date: 20.JAN.2013 16:43:57

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



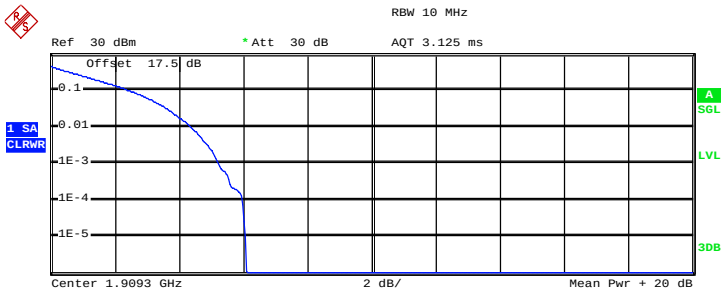
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	19.21 dBm
Peak	27.05 dBm
Crest	7.84 dB
10 %	3.04 dB
1 %	5.20 dB
.1 %	6.52 dB
.01 %	7.28 dB

Date: 20.JAN.2013 16:44:23

Band:	LTE Band 2	Bandwidth:	1.4MHz

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

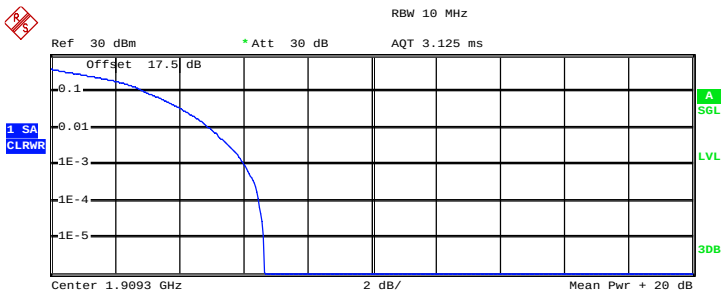


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	21.55 dBm
Peak	27.65 dBm
Crest	6.09 dB
10 %	2.52 dB
1 %	4.40 dB
.1 %	5.24 dB
.01 %	6.00 dB

Date: 25.JAN.2013 17:36:40

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



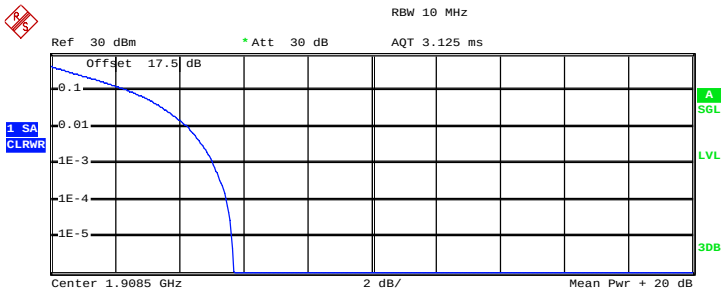
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.71 dBm
Peak	27.36 dBm
Crest	6.65 dB
10 %	3.00 dB
1 %	4.96 dB
.1 %	6.04 dB
.01 %	6.48 dB

Date: 25.JAN.2013 17:36:24

Band:	LTE Band 2	Bandwidth:	3MHz

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

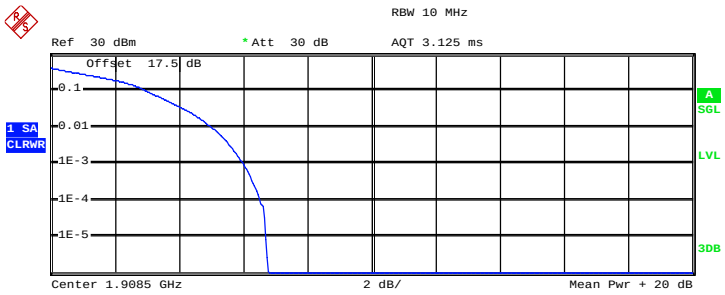


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	21.59 dBm
Peak	27.29 dBm
Crest	5.70 dB
10 %	2.48 dB
1 %	4.28 dB
.1 %	5.08 dB
.01 %	5.48 dB

Date: 25.JAN.2013 17:37:36

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



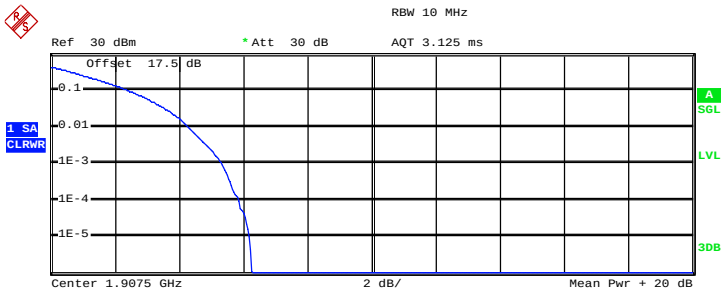
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.60 dBm
Peak	27.36 dBm
Crest	6.77 dB
10 %	3.04 dB
1 %	5.04 dB
.1 %	6.00 dB
.01 %	6.52 dB

Date: 25.JAN.2013 17:37:52

Band:	LTE Band 2	Bandwidth:	5MHz

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

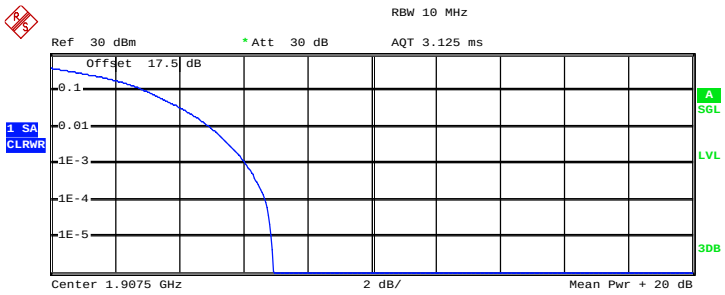


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	21.32 dBm
Peak	27.57 dBm
Crest	6.26 dB
10 %	2.48 dB
1 %	4.32 dB
.1 %	5.36 dB
.01 %	5.88 dB

Date: 25.JAN.2013 17:39:02

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



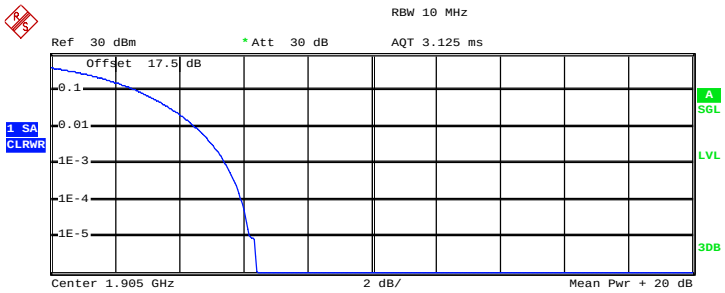
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.21 dBm
Peak	27.15 dBm
Crest	6.94 dB
10 %	3.00 dB
1 %	5.00 dB
.1 %	6.08 dB
.01 %	6.72 dB

Date: 25.JAN.2013 17:38:43

Band:	LTE Band 2	Bandwidth:	10MHz

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

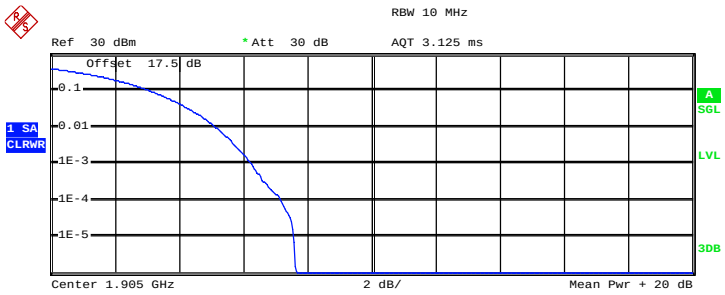


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.67 dBm
Peak	27.08 dBm
Crest	6.41 dB
10 %	2.72 dB
1 %	4.52 dB
.1 %	5.44 dB
.01 %	5.96 dB

Date: 25.JAN.2013 17:40:02

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



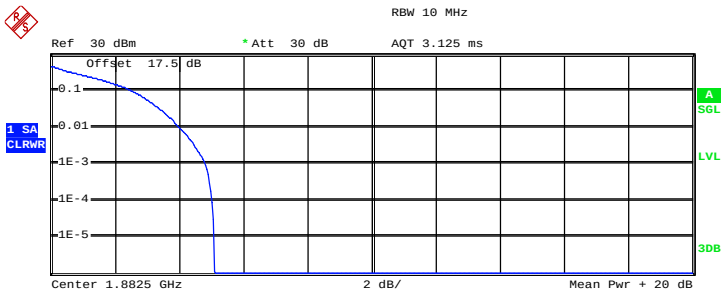
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	19.87 dBm
Peak	27.50 dBm
Crest	7.64 dB
10 %	3.16 dB
1 %	5.16 dB
.1 %	6.28 dB
.01 %	7.20 dB

Date: 25.JAN.2013 17:40:21

Band:	LTE Band 25	Bandwidth:	1.4MHz

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

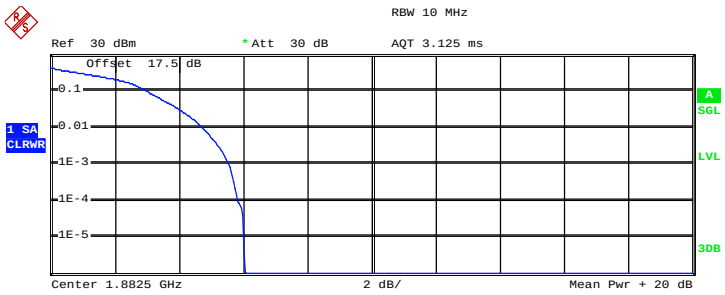


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	22.06 dBm
Peak	27.15 dBm
Crest	5.09 dB
10 %	2.60 dB
1 %	4.00 dB
.1 %	4.84 dB
.01 %	5.04 dB

Date: 20.JAN.2013 20:18:15

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



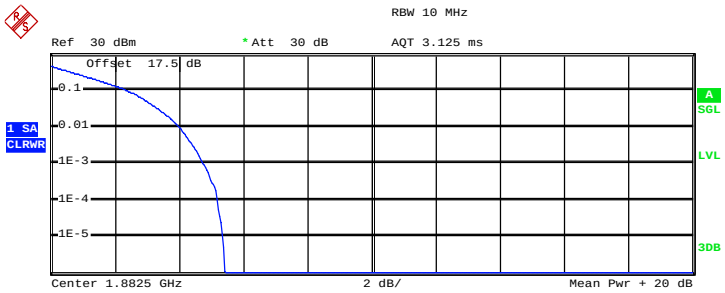
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	21.19 dBm
Peak	27.22 dBm
Crest	6.03 dB
10 %	3.04 dB
1 %	4.76 dB
.1 %	5.56 dB
.01 %	5.84 dB

Date: 20.JAN.2013 20:18:03

Band:	LTE Band 25	Bandwidth:	3MHz

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

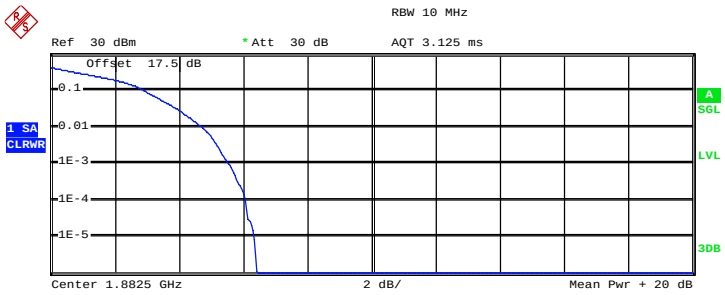


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	21.93 dBm
Peak	27.36 dBm
Crest	5.43 dB
10 %	2.44 dB
1 %	4.04 dB
.1 %	4.76 dB
.01 %	5.20 dB

Date: 20.JAN.2013 20:18:44

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



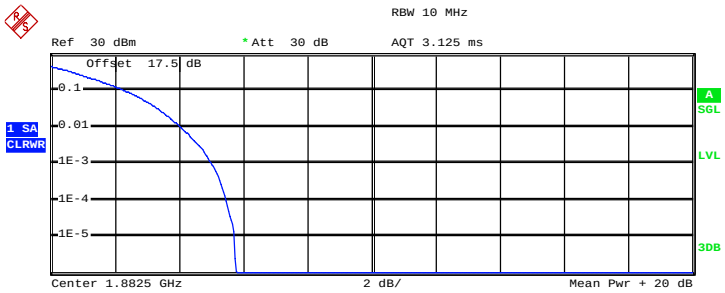
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	21.09 dBm
Peak	27.50 dBm
Crest	6.41 dB
10 %	2.96 dB
1 %	4.72 dB
.1 %	5.56 dB
.01 %	6.08 dB

Date: 20.JAN.2013 20:19:02

Band:	LTE Band 25	Bandwidth:	5MHz

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

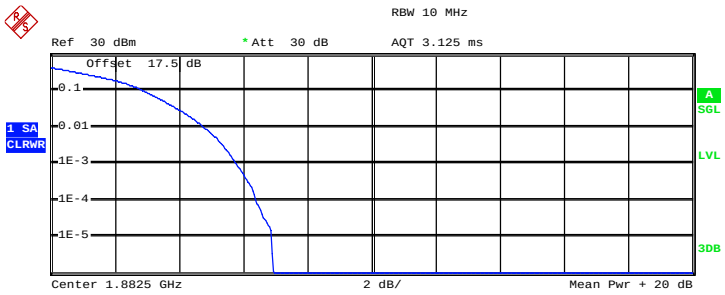


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	21.96 dBm
Peak	27.71 dBm
Crest	5.76 dB
10 %	2.36 dB
1 %	4.08 dB
.1 %	5.04 dB
.01 %	5.48 dB

Date: 20.JAN.2013 20:19:43

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



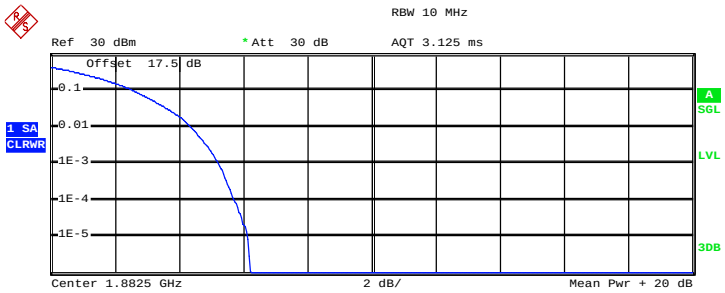
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.86 dBm
Peak	27.78 dBm
Crest	6.92 dB
10 %	2.96 dB
1 %	4.80 dB
.1 %	5.80 dB
.01 %	6.40 dB

Date: 20.JAN.2013 20:20:34

Band:	LTE Band 25	Bandwidth:	10MHz

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

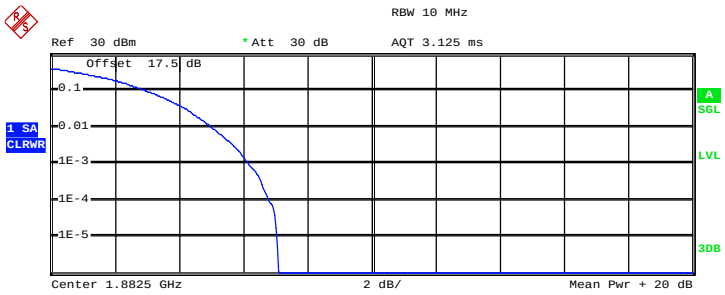


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	21.50 dBm
Peak	27.71 dBm
Crest	6.21 dB
10 %	2.64 dB
1 %	4.40 dB
.1 %	5.24 dB
.01 %	5.72 dB

Date: 20.JAN.2013 20:21:02

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



Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	20.60 dBm
Peak	27.71 dBm
Crest	7.11 dB
10 %	3.04 dB
1 %	5.04 dB
.1 %	6.16 dB
.01 %	6.80 dB

Date: 20.JAN.2013 20:21:16

3.3 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

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

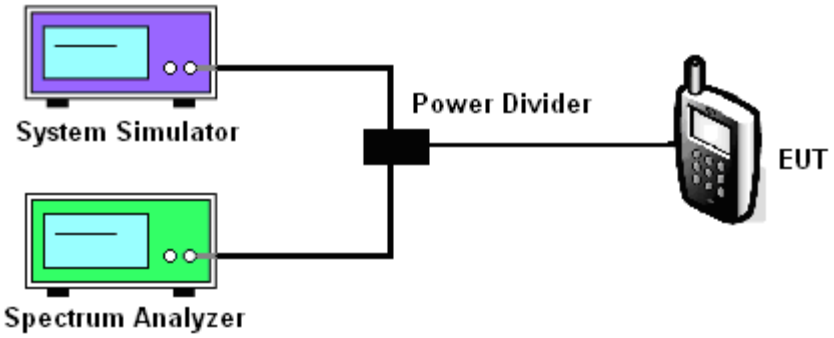
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and System Simulator 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



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

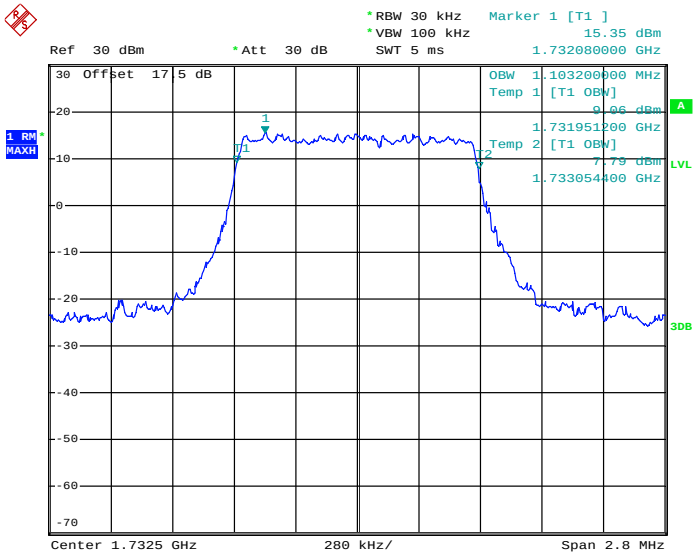
Band	Band Width	Channel	Frequency (MHz)	Modulation	99%Bandwidth (MHz)	26dB Bandwidth (MHz)
LTE Band 4	1.4MHz	20175	1732.5	QPSK	1.1032	1.3496
				16-QAM	1.0976	1.2992
	3MHz	20175	1732.5	QPSK	2.7480	3.1200
				16-QAM	2.7480	3.1200
	5MHz	20175	1732.5	QPSK	4.5200	5.0600
				16-QAM	4.5200	5.0600
	10MHz	20175	1732.5	QPSK	9.1200	10.0800
				16-QAM	9.1200	10.1600
LTE Band 12	1.4MHz	23095	707.5	QPSK	1.1032	1.2992
				16-QAM	1.0976	1.3104
	3MHz	23095	707.5	QPSK	2.7480	3.1200
				16-QAM	2.7480	3.0960
	5MHz	23095	707.5	QPSK	4.5200	5.0400
				16-QAM	4.5200	5.0600
	10MHz	23095	707.5	QPSK	9.1200	10.0400
				16-QAM	9.1200	10.0400
LTE Band 2	1.4MHz	19193	1909.3	QPSK	1.1032	1.4392
				16-QAM	1.1032	1.4280
	3MHz	19185	1908.5	QPSK	2.7240	3.0720
				16-QAM	2.7360	3.1440
	5MHz	19175	1907.5	QPSK	4.5000	5.0600
				16-QAM	4.5000	4.9800
	10MHz	19150	1905	QPSK	9.1600	10.0800
				16-QAM	9.1200	10.0400
LTE Band 25	1.4MHz	26365	1882.5	QPSK	1.1088	1.3552
				16-QAM	1.0976	1.3328
	3MHz	26365	1882.5	QPSK	2.7480	3.1440
				16-QAM	2.7480	3.0960
	5MHz	26365	1882.5	QPSK	4.5200	5.1000
				16-QAM	4.5200	5.1000
	10MHz	26365	1882.5	QPSK	9.1200	10.0800
				16-QAM	9.1200	10.1600

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

Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK

99% Occupied Bandwidth Plot on Channel 20175

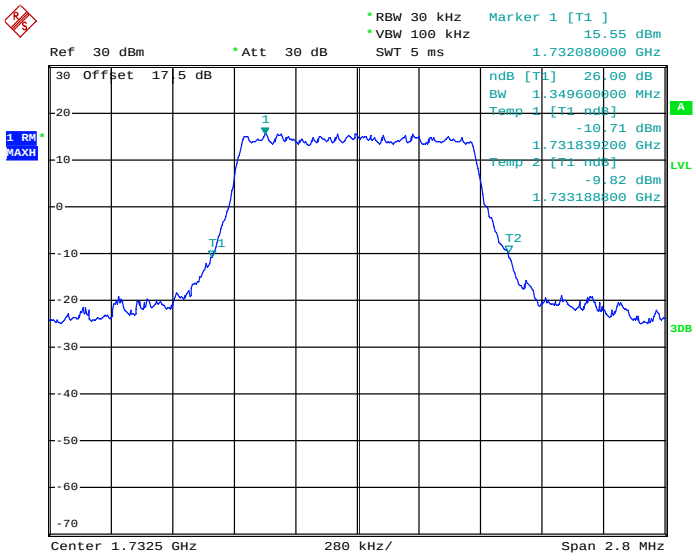
for RB Size 6, RB Offset 0



Date: 20.JAN.2013 15:30:53

26dB Bandwidth Plot on Channel 20175

for RB Size 6, RB Offset 0

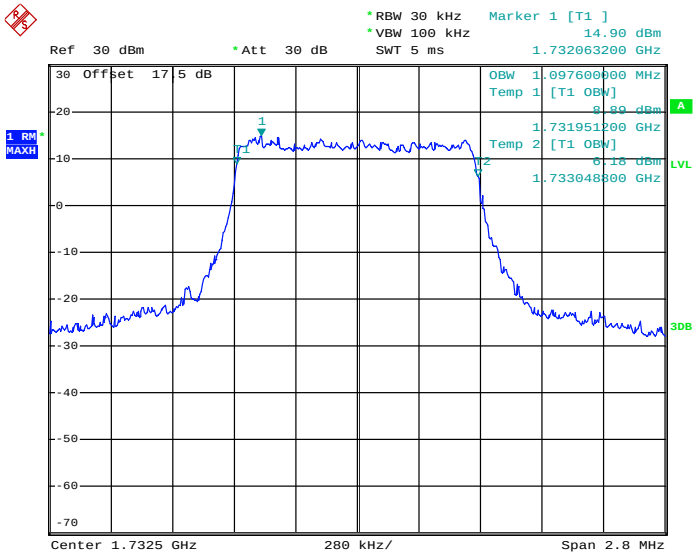


Date: 20.JAN.2013 15:12:41

Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 20175

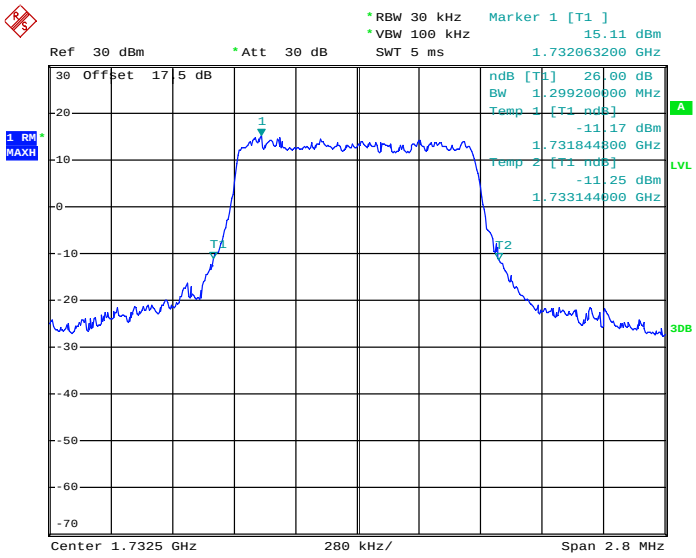
for RB Size 6, RB Offset 0



Date: 20.JAN.2013 15:31:29

26dB Bandwidth Plot on Channel 20175

for RB Size 6, RB Offset 0

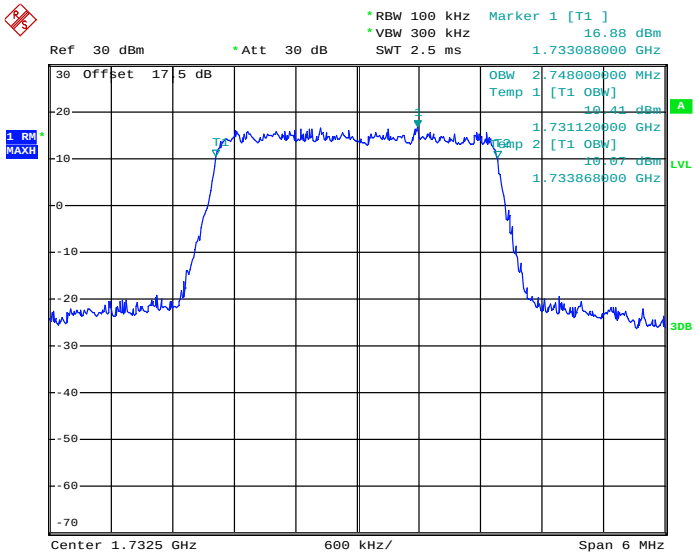


Date: 20.JAN.2013 15:13:26

Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK

99% Occupied Bandwidth Plot on Channel 20175

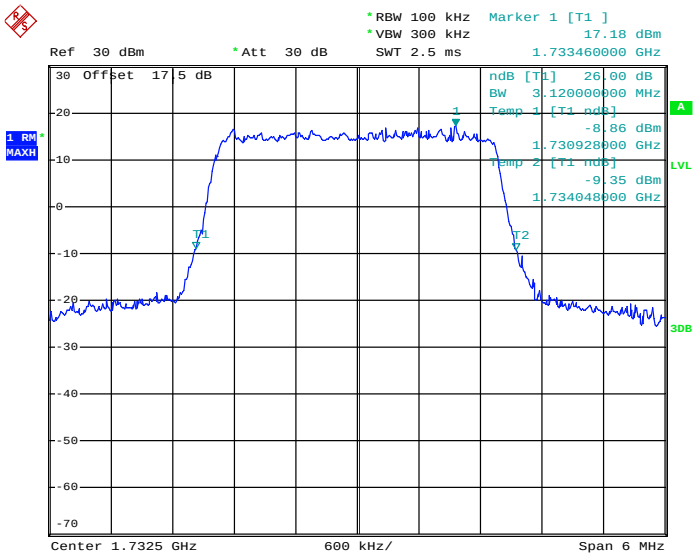
for RB Size 15, RB Offset 0



Date: 20.JAN.2013 15:37:18

26dB Bandwidth Plot on Channel 20175

for RB Size 15, RB Offset 0

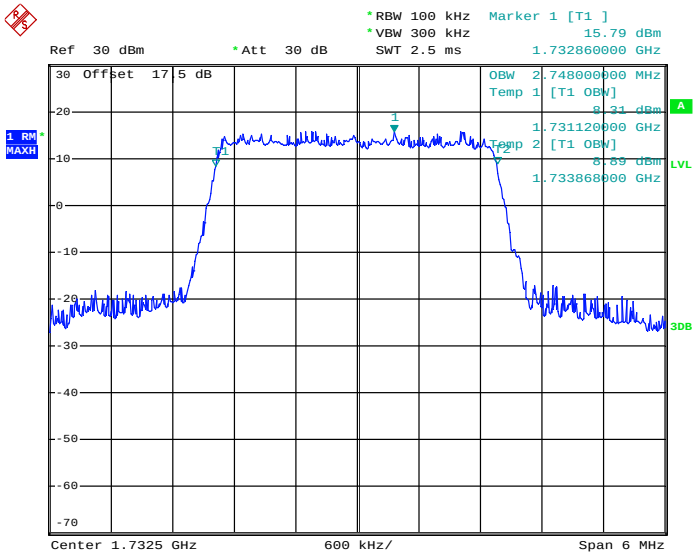


Date: 20.JAN.2013 15:17:09

Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 20175

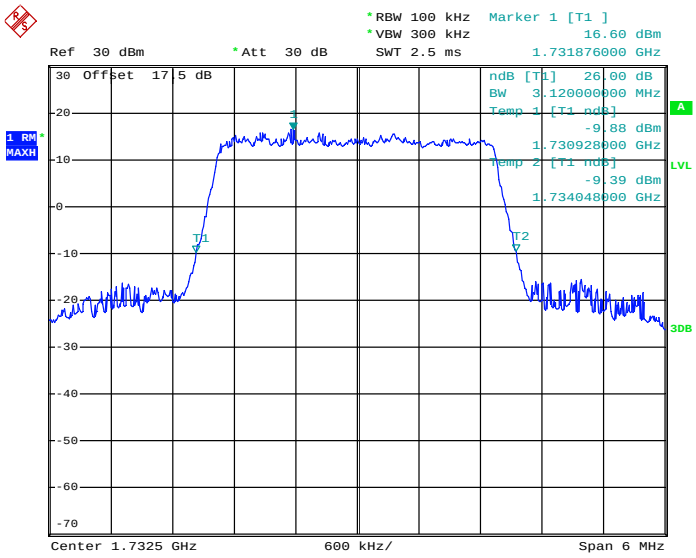
for RB Size 15, RB Offset 0



Date: 20.JAN.2013 15:36:54

26dB Bandwidth Plot on Channel 20175

for RB Size 15, RB Offset 0

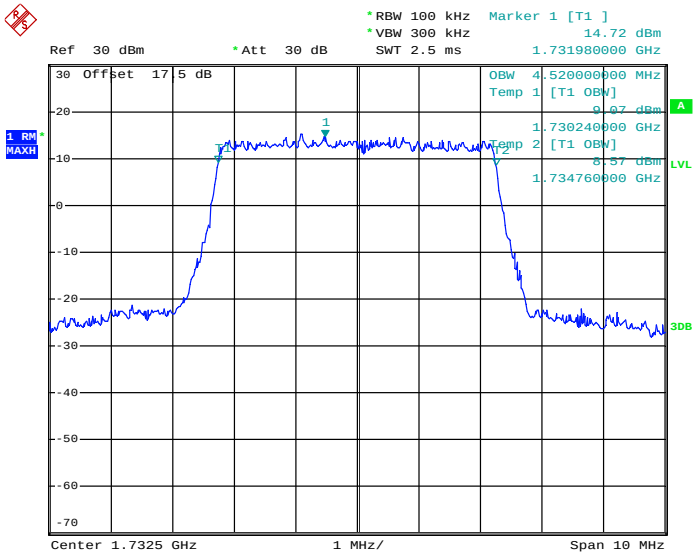


Date: 20.JAN.2013 15:16:26

Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK

99% Occupied Bandwidth Plot on Channel 20175

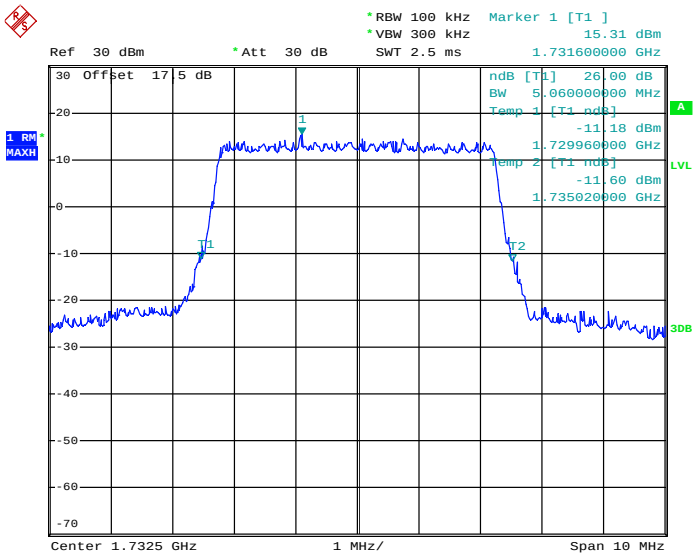
for RB Size 25, RB Offset 0



Date: 20.JAN.2013 15:45:07

26dB Bandwidth Plot on Channel 20175

for RB Size 25, RB Offset 0

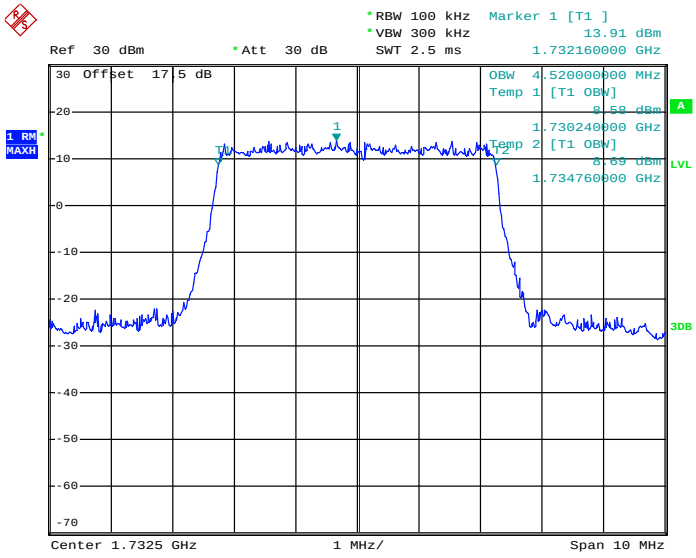


Date: 20.JAN.2013 15:18:00

Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 20175

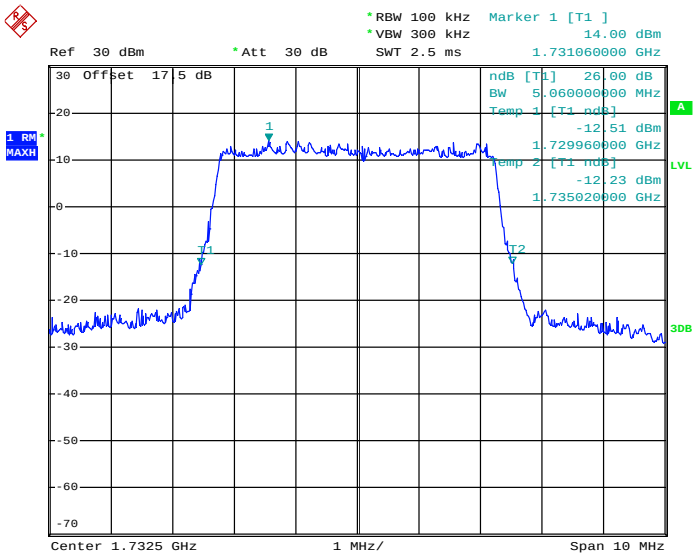
for RB Size 25, RB Offset 0



Date: 20.JAN.2013 15:45:54

26dB Bandwidth Plot on Channel 20175

for RB Size 25, RB Offset 0

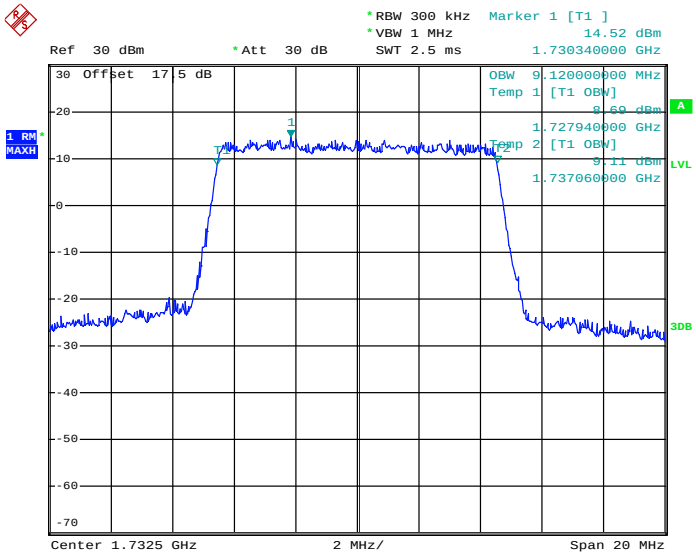


Date: 20.JAN.2013 15:18:39

Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK

99% Occupied Bandwidth Plot on Channel 20175

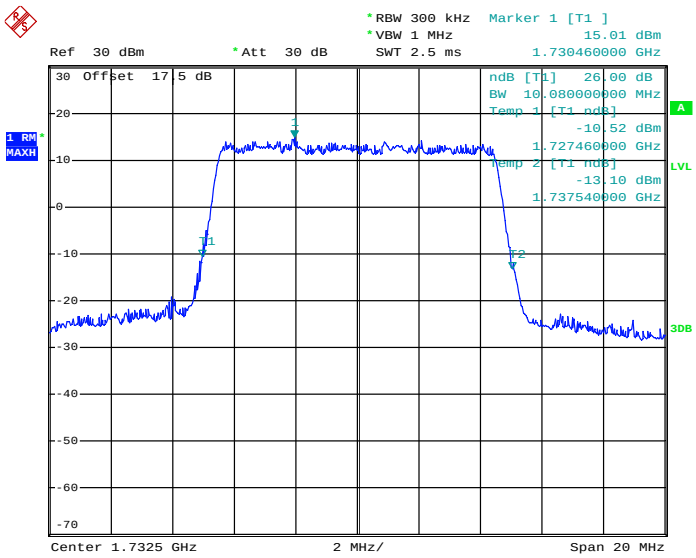
for RB Size 50, RB Offset 0



Date: 20.JAN.2013 15:51:08

26dB Bandwidth Plot on Channel 20175

for RB Size 50, RB Offset 0

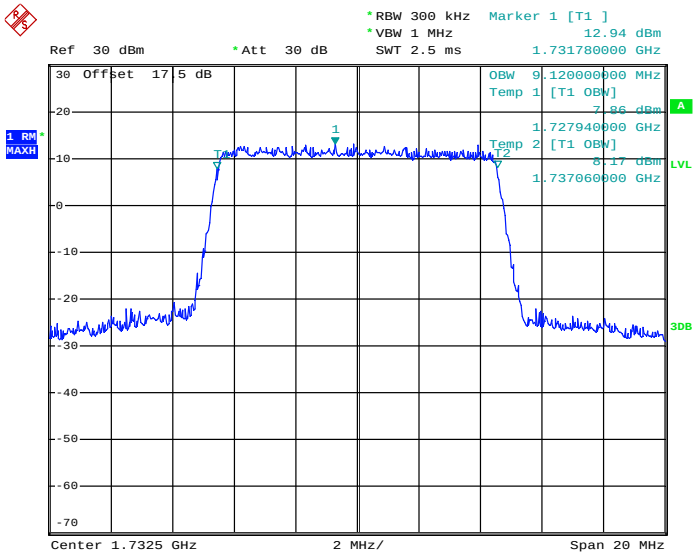


Date: 20.JAN.2013 15:20:16

Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 20175

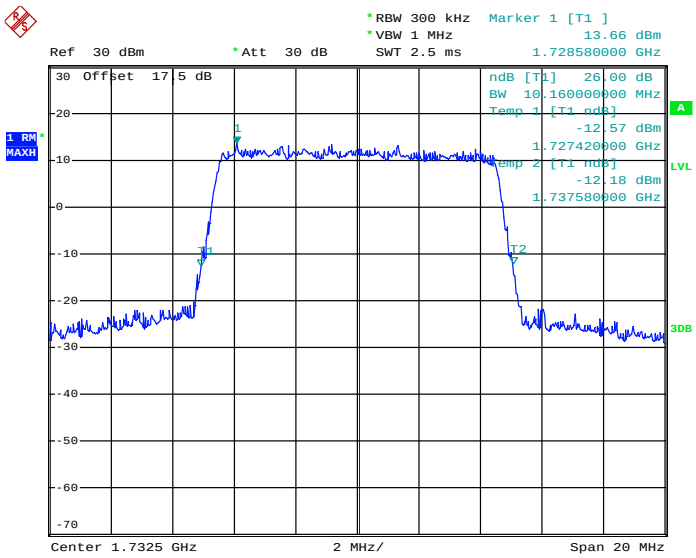
for RB Size 50, RB Offset 0



Date: 20.JAN.2013 15:51:37

26dB Bandwidth Plot on Channel 20175

for RB Size 50, RB Offset 0

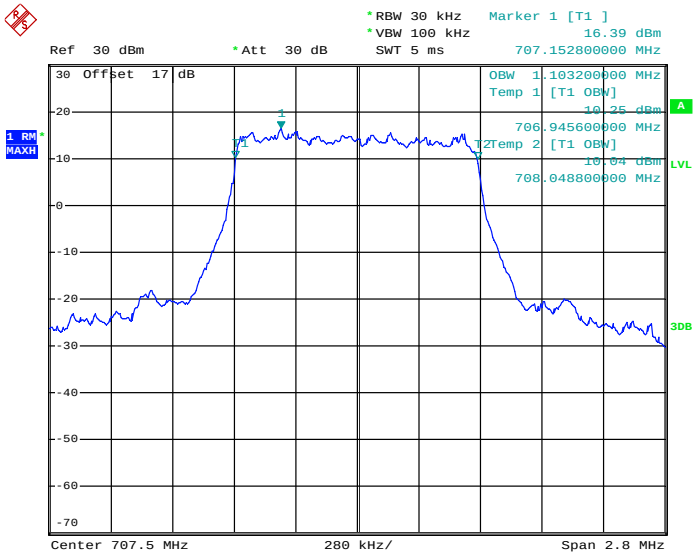


Date: 20.JAN.2013 15:20:53

Band :	LTE Band 12	BW / Mod. :	1.4MHz / QPSK

99% Occupied Bandwidth Plot on Channel 23095

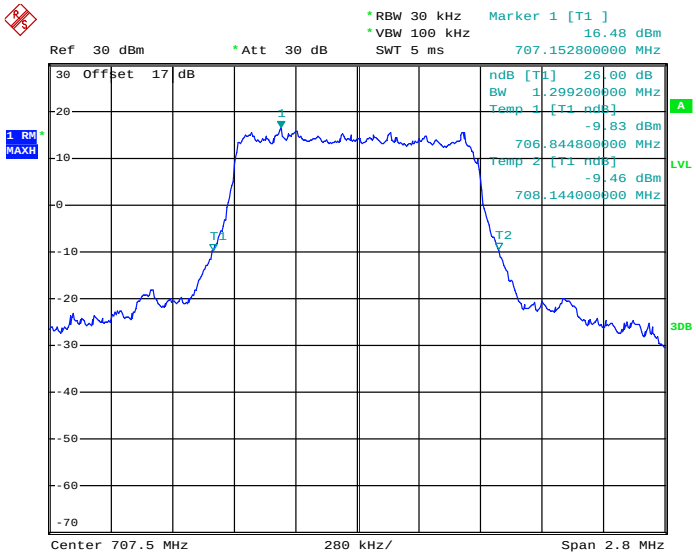
for RB Size 6, RB Offset 0



Date: 20.JAN.2013 16:09:27

26dB Bandwidth Plot on Channel 23095

for RB Size 6, RB Offset 0

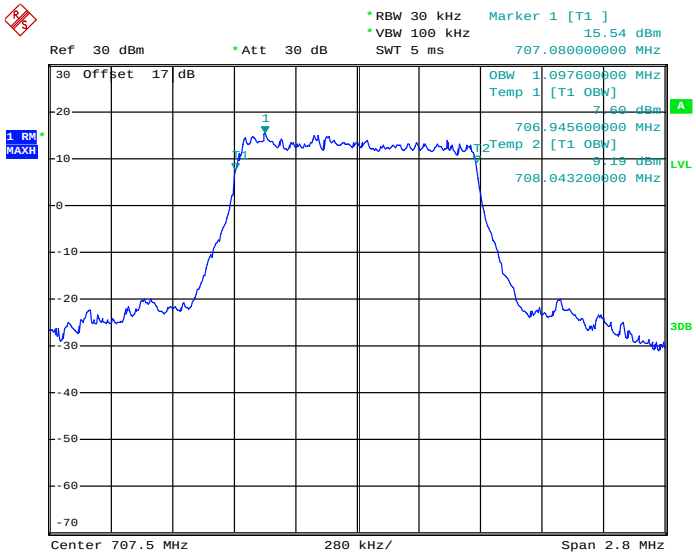


Date: 20.JAN.2013 16:39:57

Band :	LTE Band 12	BW / Mod. :	1.4MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 23095

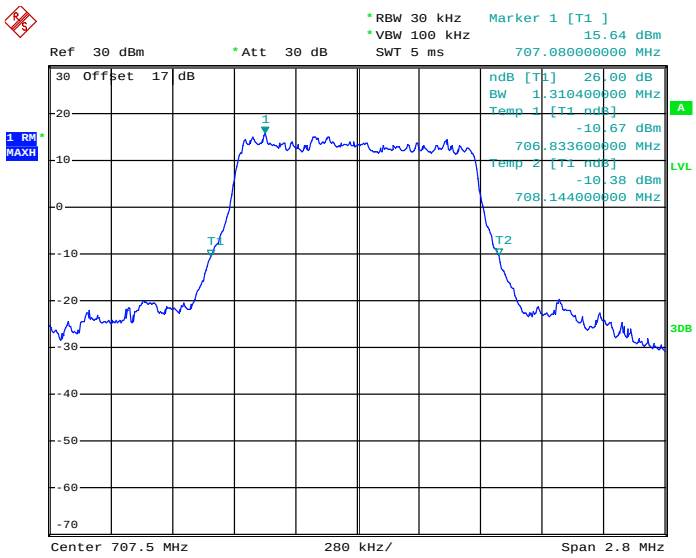
for RB Size 6, RB Offset 0



Date: 20.JAN.2013 16:08:38

26dB Bandwidth Plot on Channel 23095

for RB Size 6, RB Offset 0

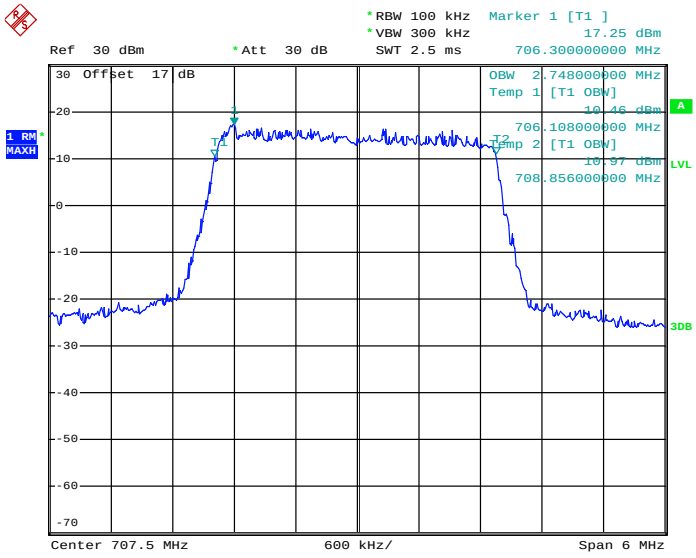


Date: 20.JAN.2013 16:40:42

Band :	LTE Band 12	BW / Mod. :	3MHz / QPSK

99% Occupied Bandwidth Plot on Channel 23095

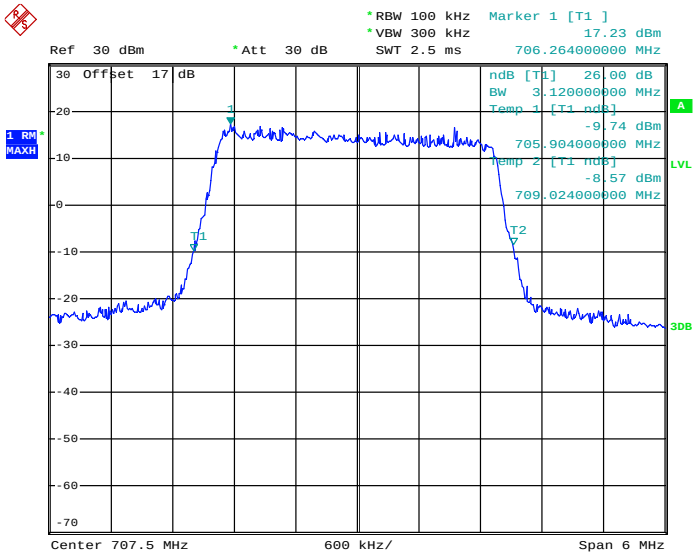
for RB Size 15, RB Offset 0



Date: 20.JAN.2013 16:13:15

26dB Bandwidth Plot on Channel 23095

for RB Size 15, RB Offset 0

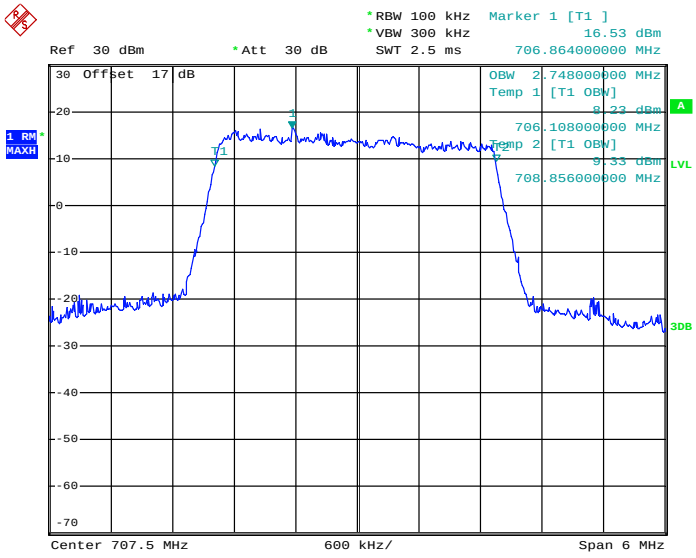


Date: 20.JAN.2013 16:38:07

Band :	LTE Band 12	BW / Mod. :	3MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 23095

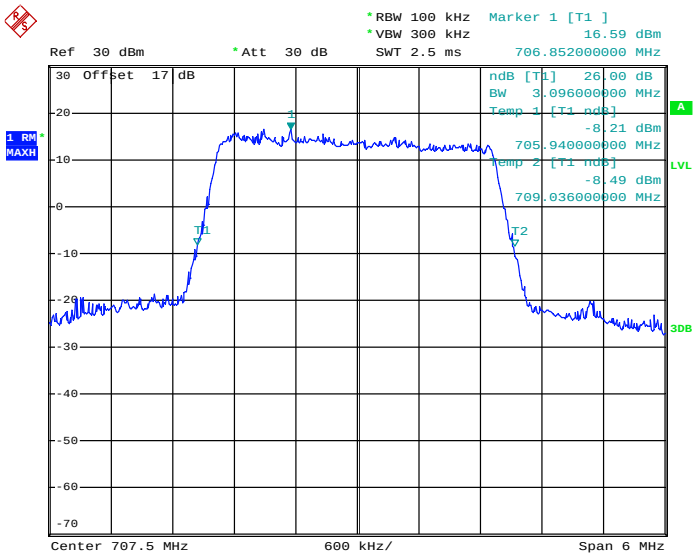
for RB Size 15, RB Offset 0



Date: 20.JAN.2013 16:12:36

26dB Bandwidth Plot on Channel 23095

for RB Size 15, RB Offset 0

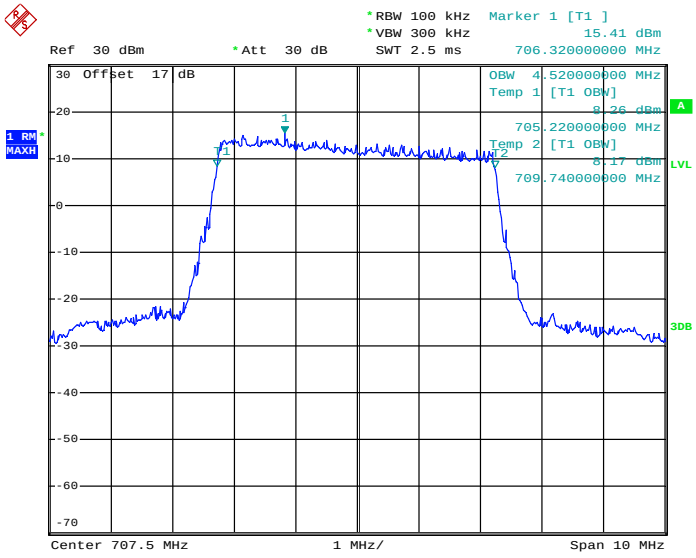


Date: 20.JAN.2013 16:38:49

Band :	LTE Band 12	BW / Mod. :	5MHz / QPSK

99% Occupied Bandwidth Plot on Channel 23095

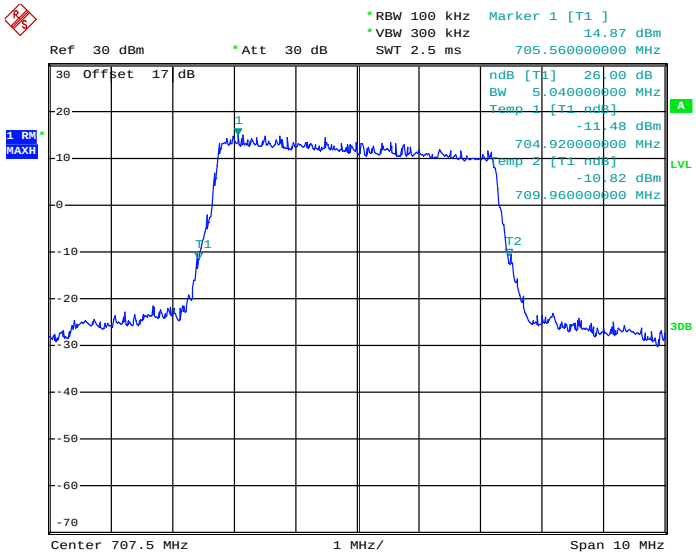
for RB Size 25, RB Offset 0



Date: 20.JAN.2013 16:24:49

26dB Bandwidth Plot on Channel 23095

for RB Size 25, RB Offset 0

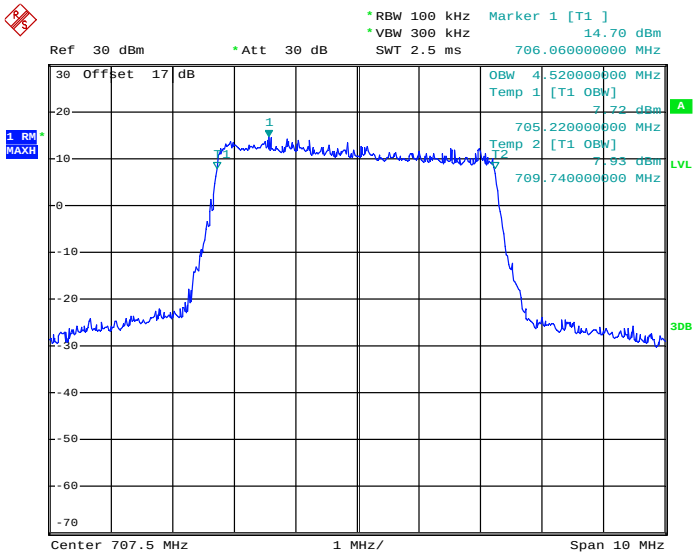


Date: 20.JAN.2013 16:37:19

Band :	LTE Band 12	BW / Mod. :	5MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 23095

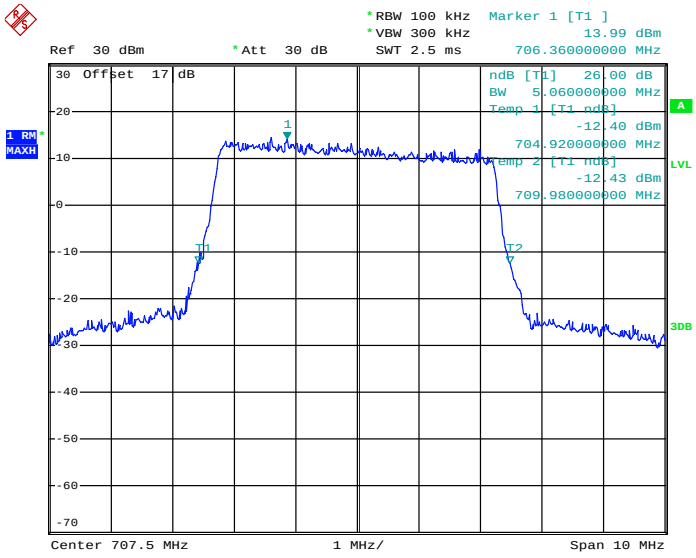
for RB Size 25, RB Offset 0



Date: 20.JAN.2013 16:25:23

26dB Bandwidth Plot on Channel 23095

for RB Size 25, RB Offset 0

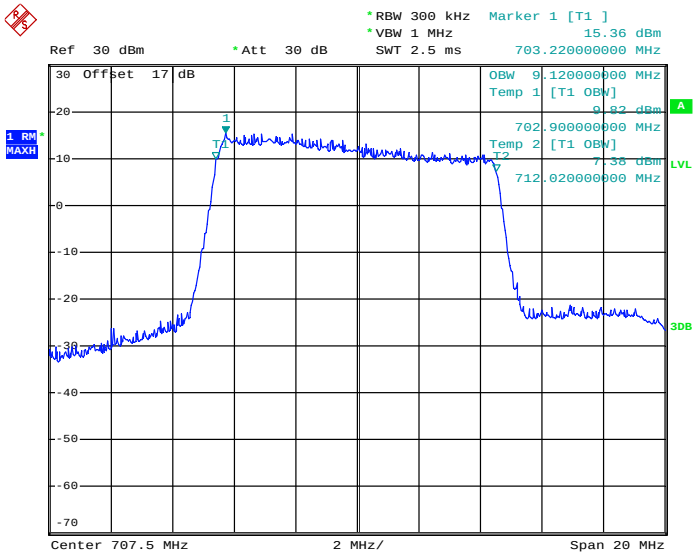


Date: 20.JAN.2013 16:36:49

Band :	LTE Band 12	BW / Mod. :	10MHz / QPSK

99% Occupied Bandwidth Plot on Channel 23095

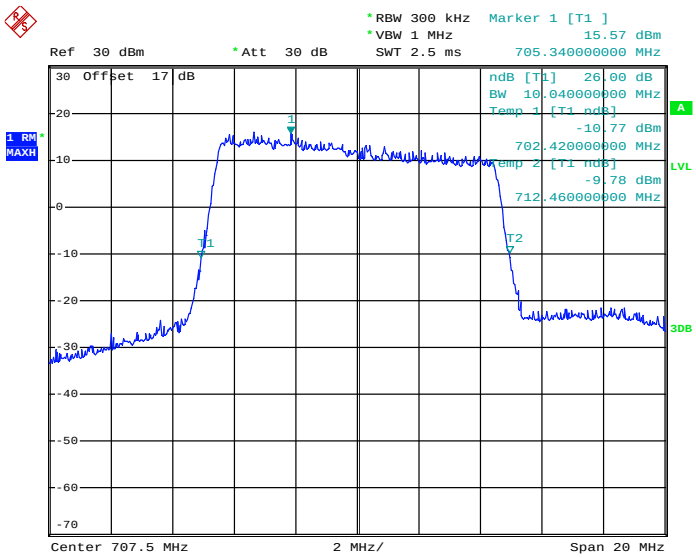
for RB Size 50, RB Offset 0



Date: 20.JAN.2013 16:28:01

26dB Bandwidth Plot on Channel 23095

for RB Size 50, RB Offset 0

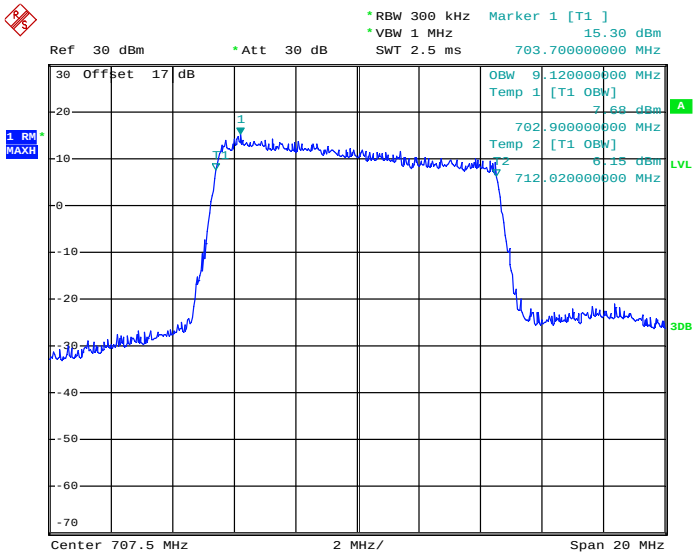


Date: 20.JAN.2013 16:35:51

Band :	LTE Band 12	BW / Mod. :	10MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 23095

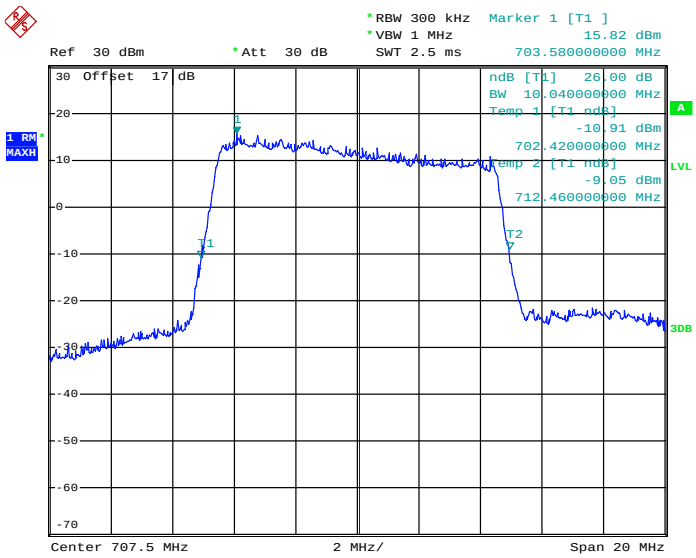
for RB Size 50, RB Offset 0



Date: 20.JAN.2013 16:28:32

26dB Bandwidth Plot on Channel 23095

for RB Size 50, RB Offset 0

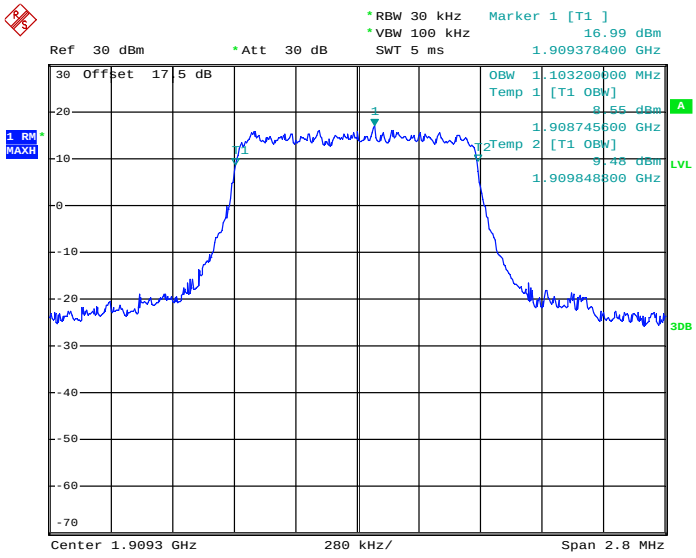


Date: 20.JAN.2013 16:35:17

Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK

99% Occupied Bandwidth Plot on Channel 19193

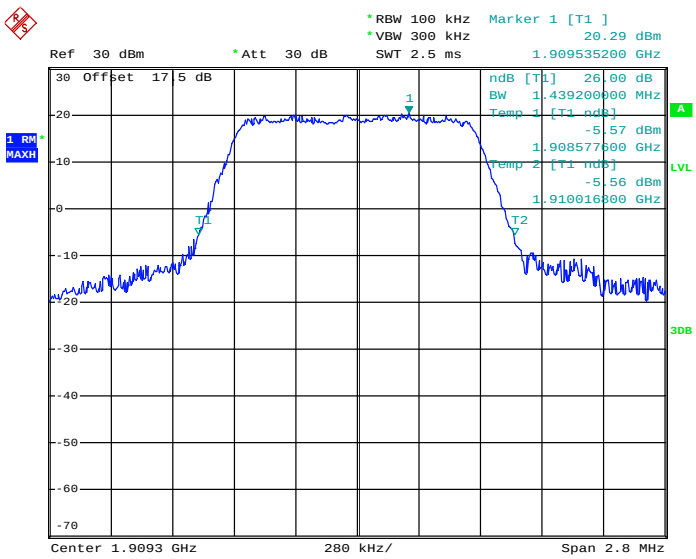
for RB Size 6, RB Offset 0



Date: 25.JAN.2013 18:00:50

26dB Bandwidth Plot on Channel 19193

for RB Size 6, RB Offset 0

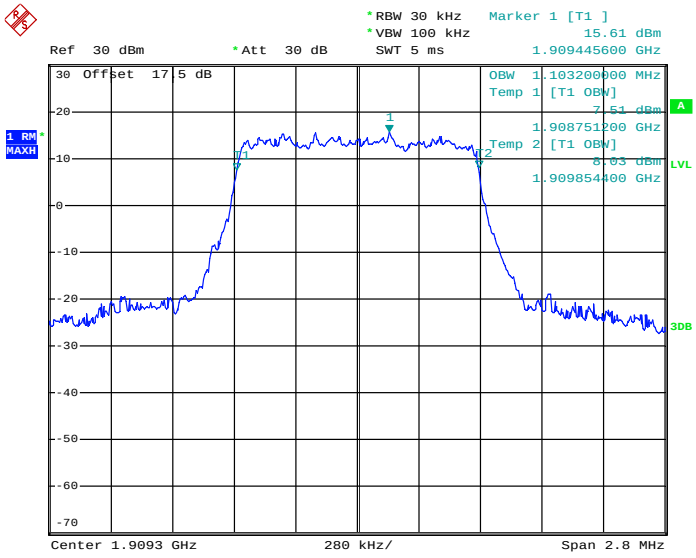


Date: 25.JAN.2013 17:35:18

Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 19193

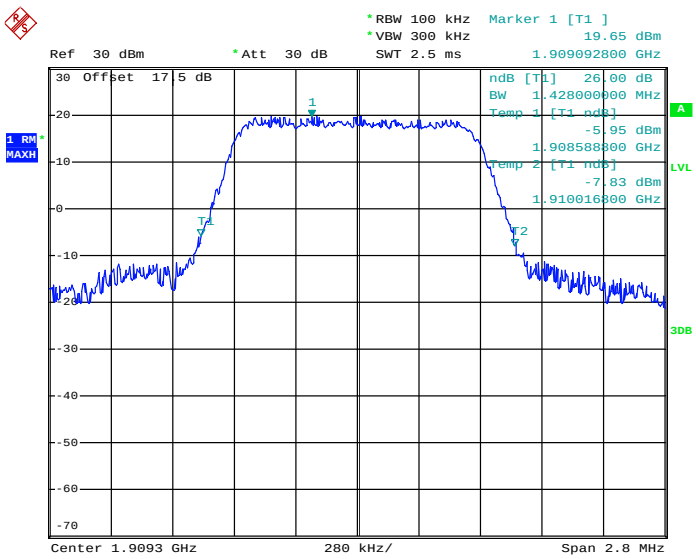
for RB Size 6, RB Offset 0



Date: 25.JAN.2013 18:00:21

26dB Bandwidth Plot on Channel 19193

for RB Size 6, RB Offset 0

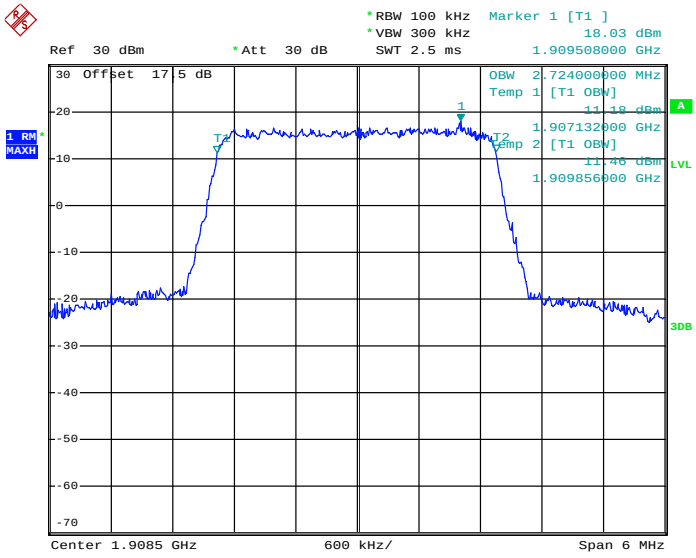


Date: 25.JAN.2013 17:35:45

Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK

99% Occupied Bandwidth Plot on Channel 19185

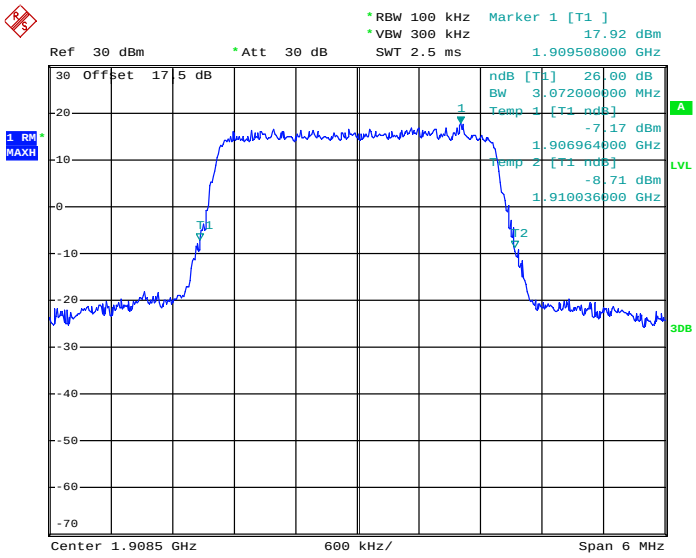
for RB Size 15, RB Offset 0



Date: 25.JAN.2013 17:55:24

26dB Bandwidth Plot on Channel 19185

for RB Size 15, RB Offset 0

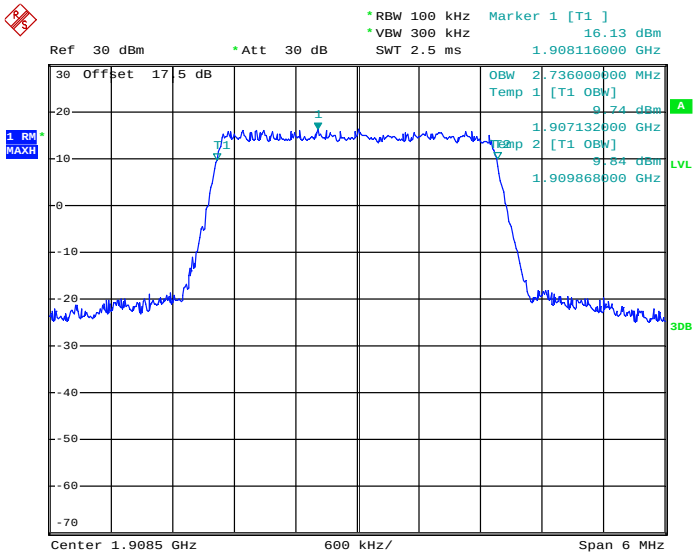


Date: 25.JAN.2013 17:32:32

Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 19185

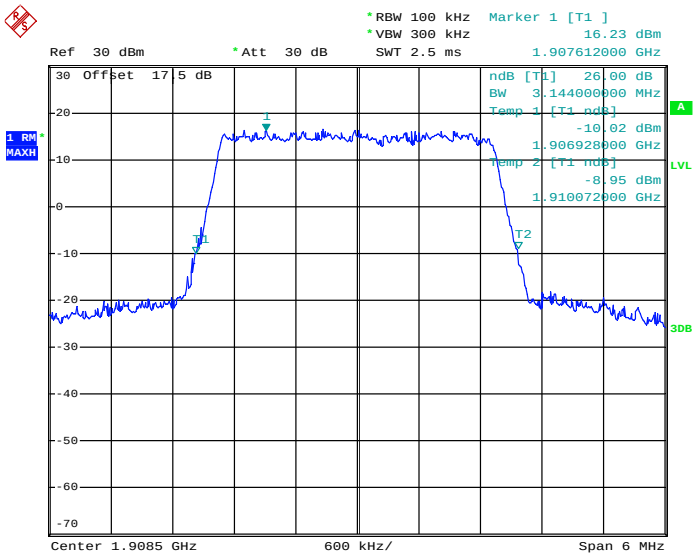
for RB Size 15, RB Offset 0



Date: 25.JAN.2013 17:54:47

26dB Bandwidth Plot on Channel 19185

for RB Size 15, RB Offset 0

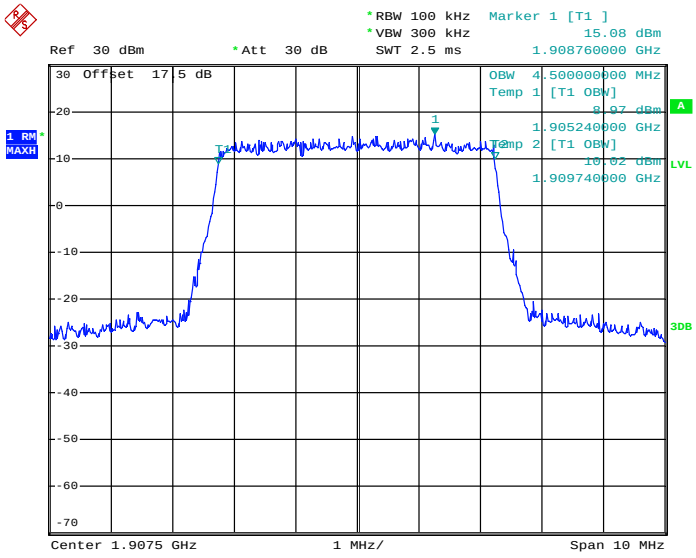


Date: 25.JAN.2013 17:31:59

Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK

99% Occupied Bandwidth Plot on Channel 19175

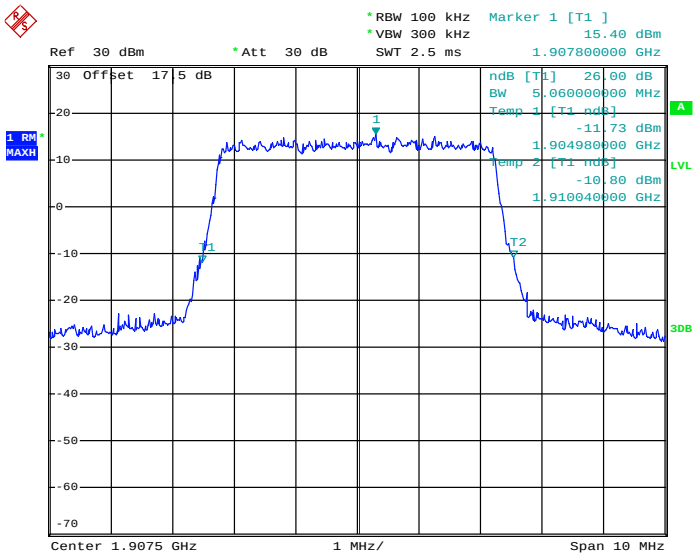
for RB Size 25, RB Offset 0



Date: 25.JAN.2013 17:48:12

26dB Bandwidth Plot on Channel 19175

for RB Size 25, RB Offset 0

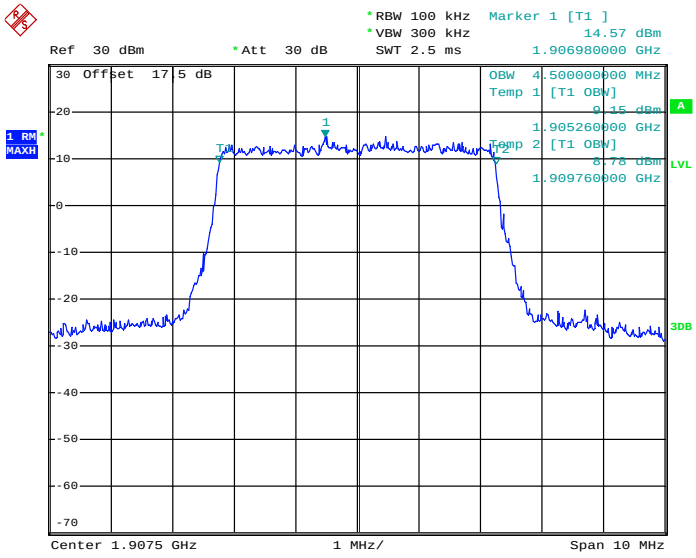


Date: 25.JAN.2013 17:29:59

Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 19175

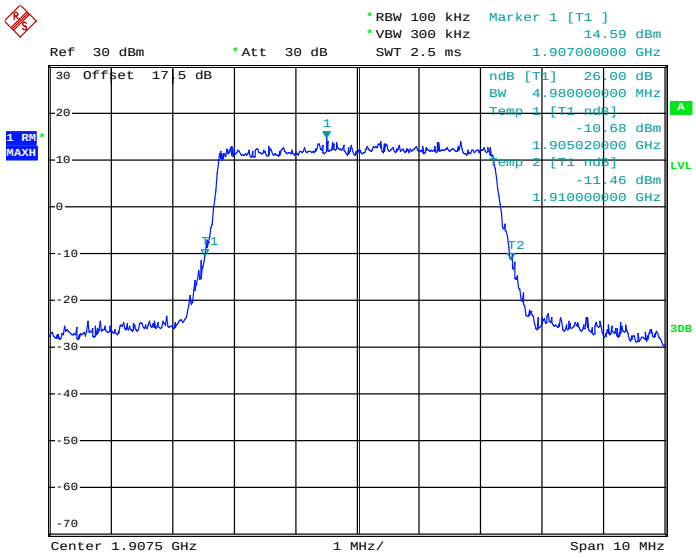
for RB Size 25, RB Offset 0



Date: 25.JAN.2013 17:47:49

26dB Bandwidth Plot on Channel 19175

for RB Size 25, RB Offset 0

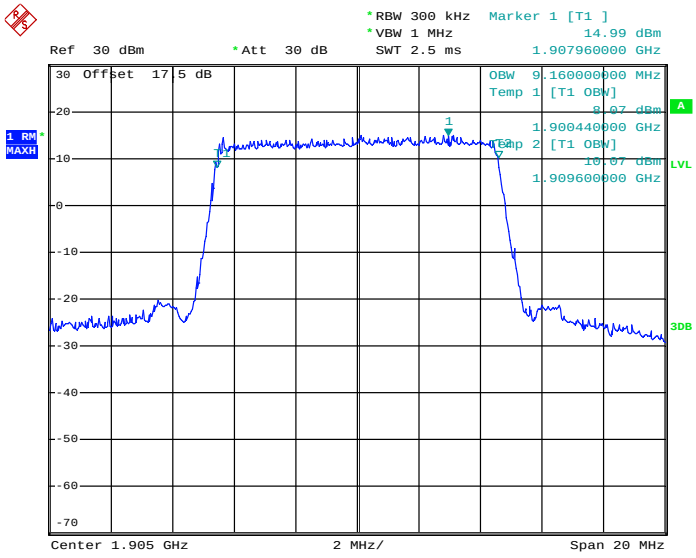


Date: 25.JAN.2013 17:30:37

Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK

99% Occupied Bandwidth Plot on Channel 19150

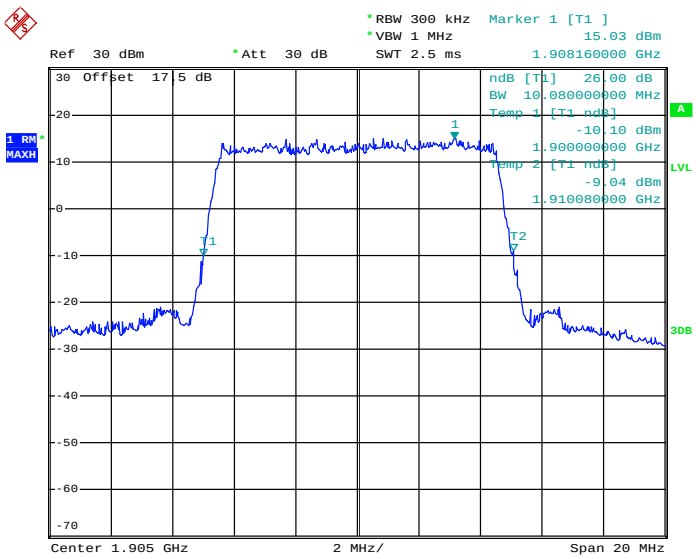
for RB Size 50, RB Offset 0



Date: 25.JAN.2013 17:43:08

26dB Bandwidth Plot on Channel 19150

for RB Size 50, RB Offset 0

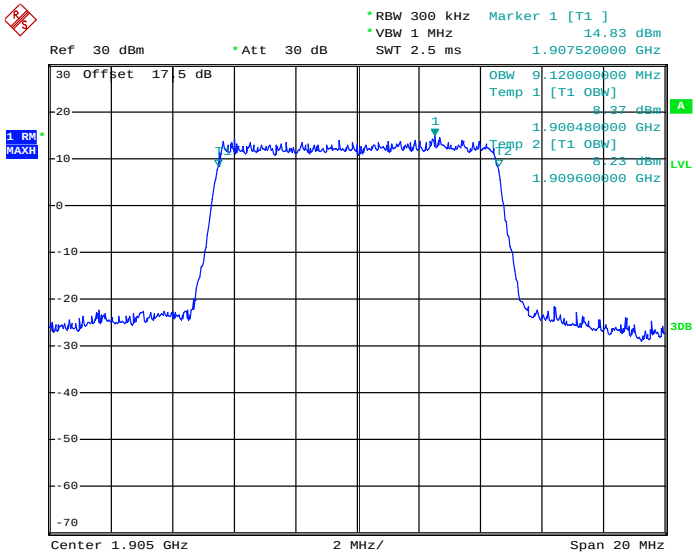


Date: 25.JAN.2013 17:28:37

Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 19150

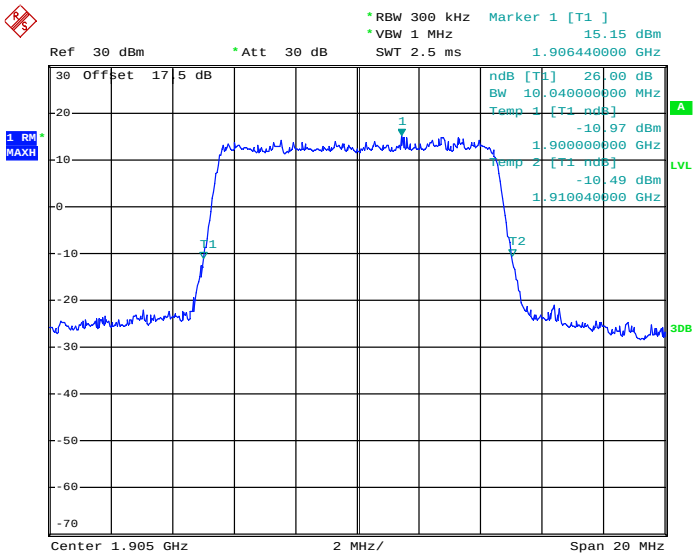
for RB Size 50, RB Offset 0



Date: 25.JAN.2013 17:42:31

26dB Bandwidth Plot on Channel 19150

for RB Size 50, RB Offset 0

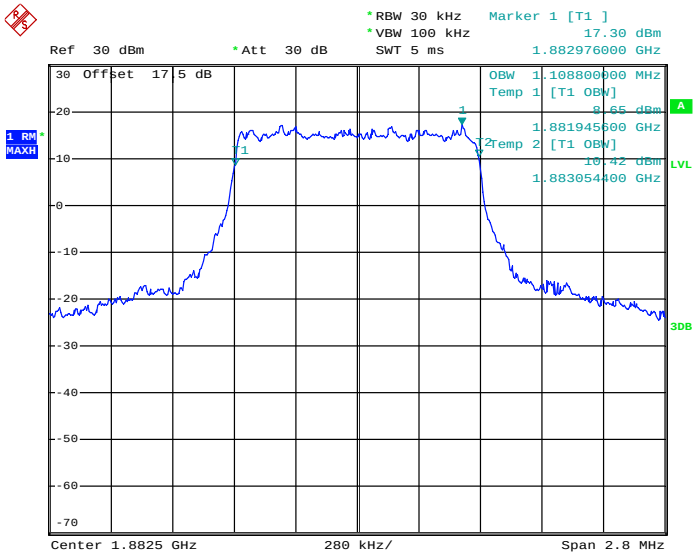


Date: 25.JAN.2013 17:28:07

Band :	LTE Band 25	BW / Mod. :	1.4MHz / QPSK

99% Occupied Bandwidth Plot on Channel 26365

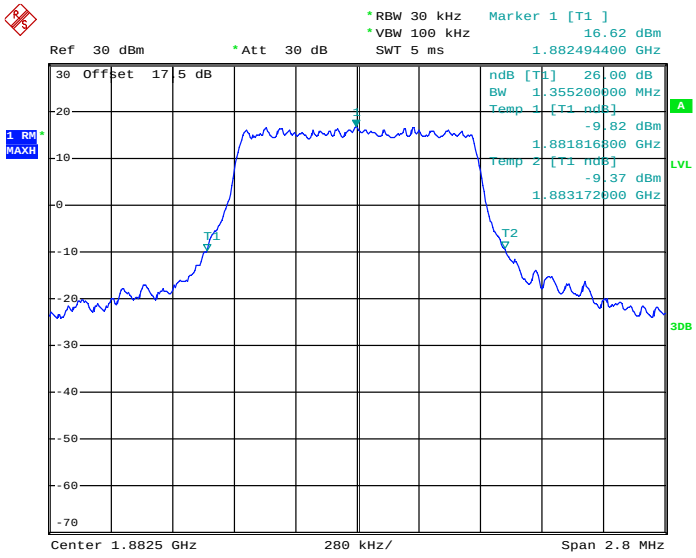
for RB Size 6, RB Offset 0



Date: 20.JAN.2013 20:11:37

26dB Bandwidth Plot on Channel 26365

for RB Size 6, RB Offset 0

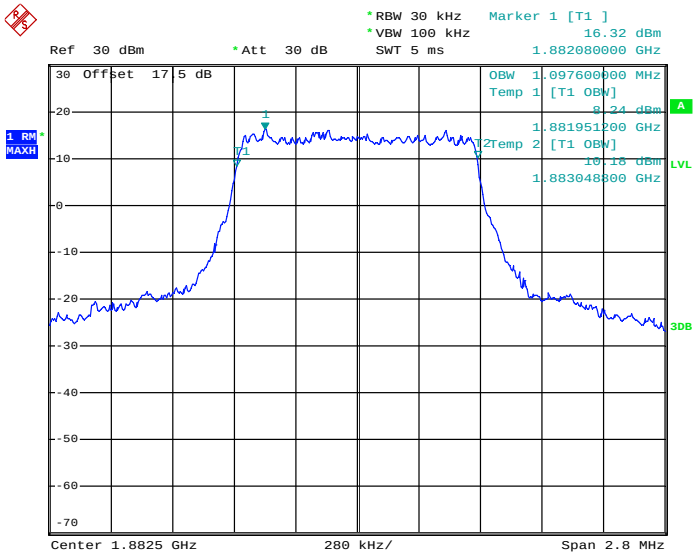


Date: 20.JAN.2013 19:41:25

Band :	LTE Band 25	BW / Mod. :	1.4MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 26365

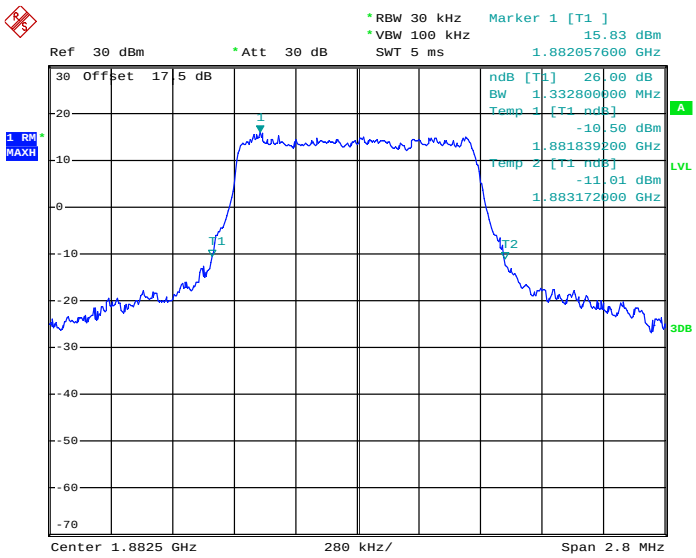
for RB Size 6, RB Offset 0



Date: 20.JAN.2013 20:11:04

26dB Bandwidth Plot on Channel 26365

for RB Size 6, RB Offset 0

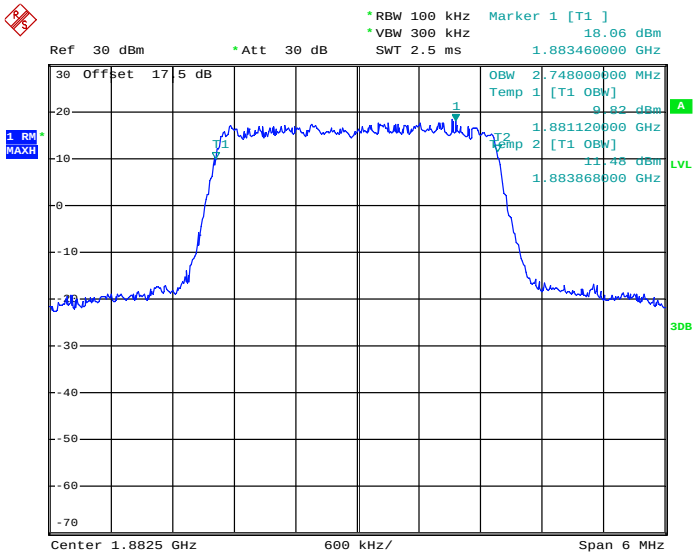


Date: 20.JAN.2013 19:42:08

Band :	LTE Band 25	BW / Mod. :	3MHz / QPSK

99% Occupied Bandwidth Plot on Channel 26365

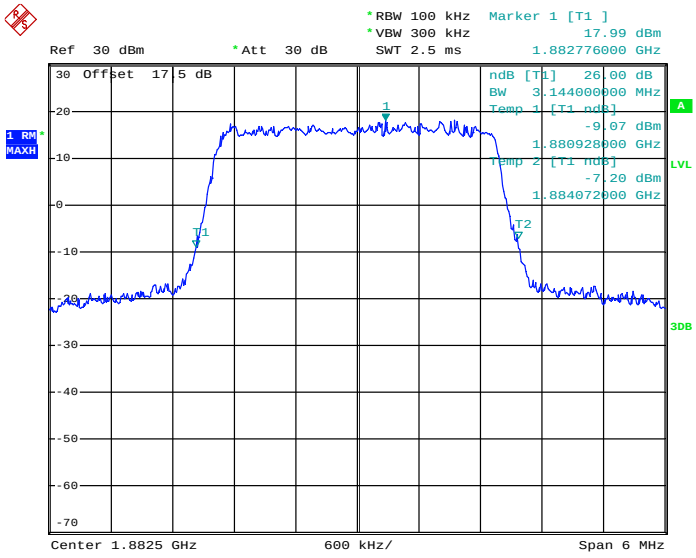
for RB Size 15, RB Offset 0



Date: 20.JAN.2013 20:04:59

26dB Bandwidth Plot on Channel 26365

for RB Size 15, RB Offset 0

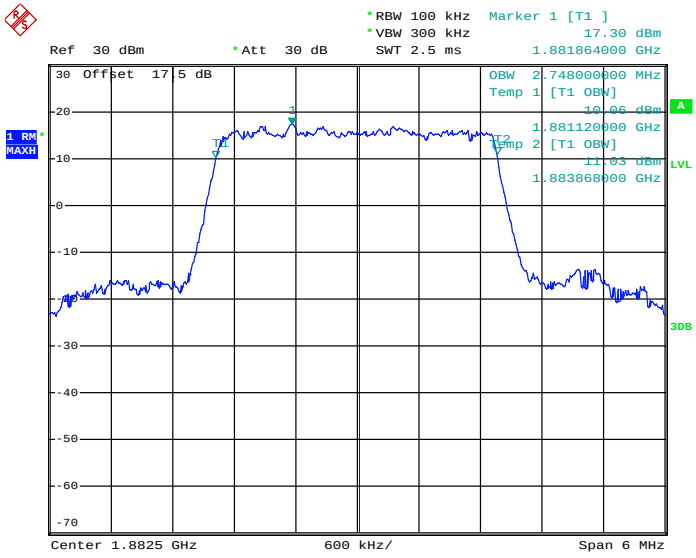


Date: 20.JAN.2013 19:43:05

Band :	LTE Band 25	BW / Mod. :	3MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 26365

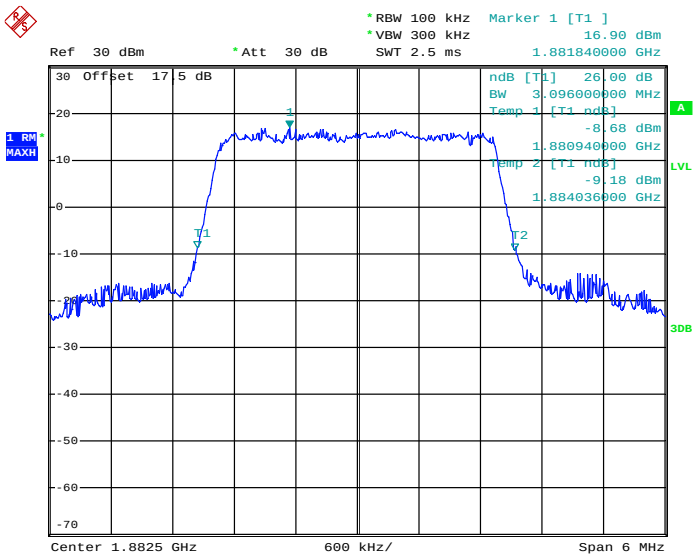
for RB Size 15, RB Offset 0



Date: 20.JAN.2013 20:04:19

26dB Bandwidth Plot on Channel 26365

for RB Size 15, RB Offset 0

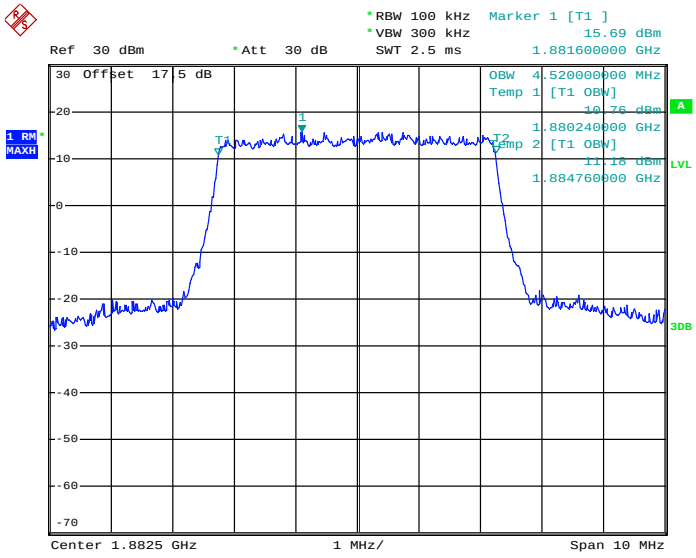


Date: 20.JAN.2013 19:43:48

Band :	LTE Band 25	BW / Mod. :	5MHz / QPSK

99% Occupied Bandwidth Plot on Channel 26365

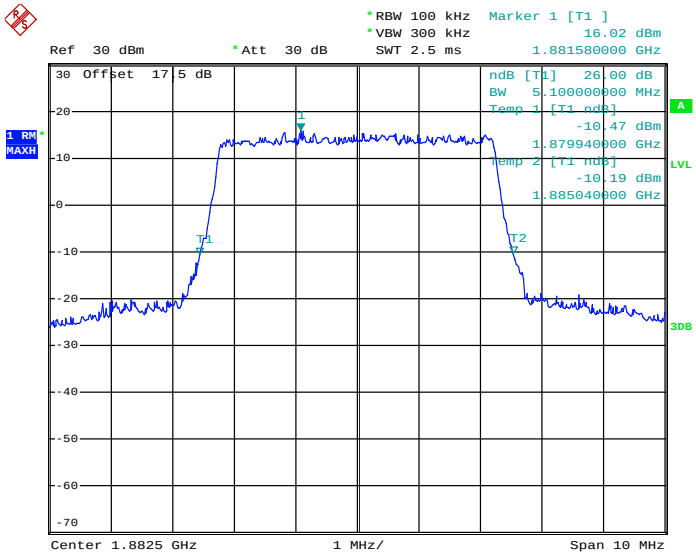
for RB Size 25, RB Offset 0



Date: 20.JAN.2013 19:56:47

26dB Bandwidth Plot on Channel 26365

for RB Size 25, RB Offset 0

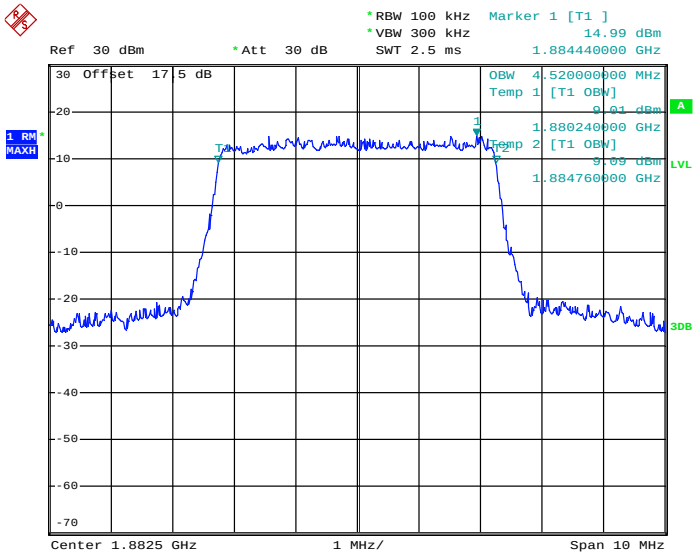


Date: 20.JAN.2013 19:44:46

Band :	LTE Band 25	BW / Mod. :	5MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 26365

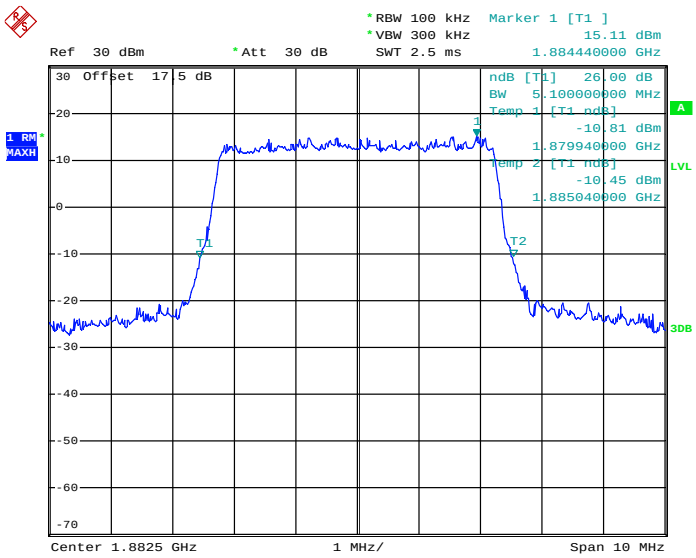
for RB Size 25, RB Offset 0



Date: 20.JAN.2013 19:56:06

26dB Bandwidth Plot on Channel 26365

for RB Size 25, RB Offset 0

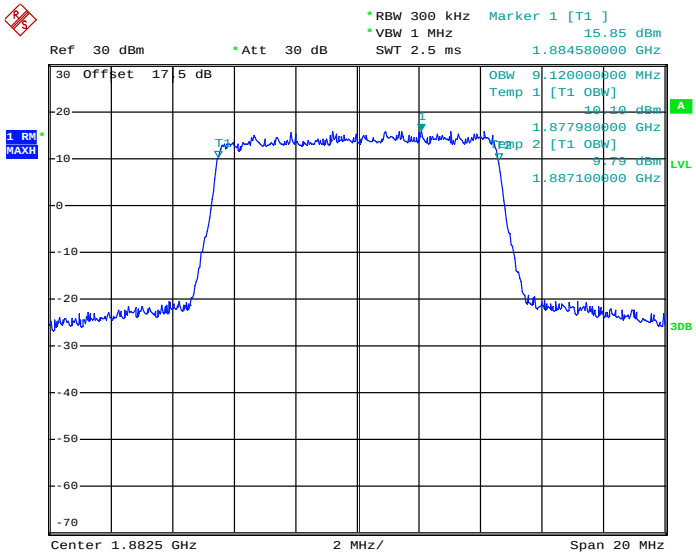


Date: 20.JAN.2013 19:45:40

Band :	LTE Band 25	BW / Mod. :	10MHz / QPSK

99% Occupied Bandwidth Plot on Channel 26365

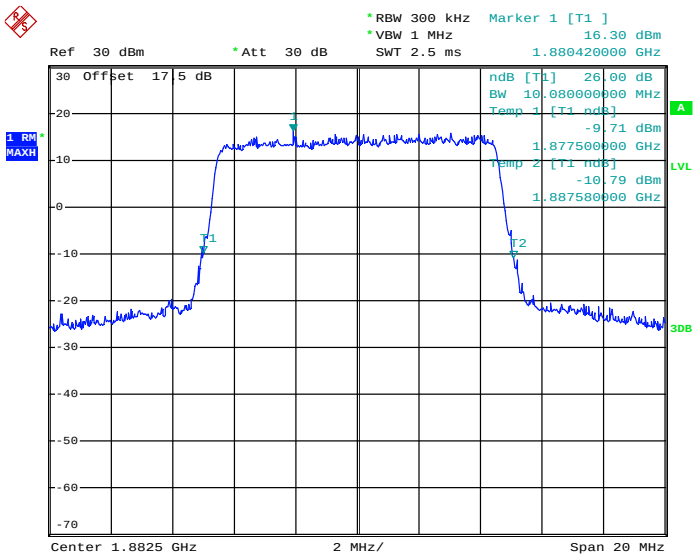
for RB Size 50, RB Offset 0



Date: 20.JAN.2013 19:49:57

26dB Bandwidth Plot on Channel 26365

for RB Size 50, RB Offset 0

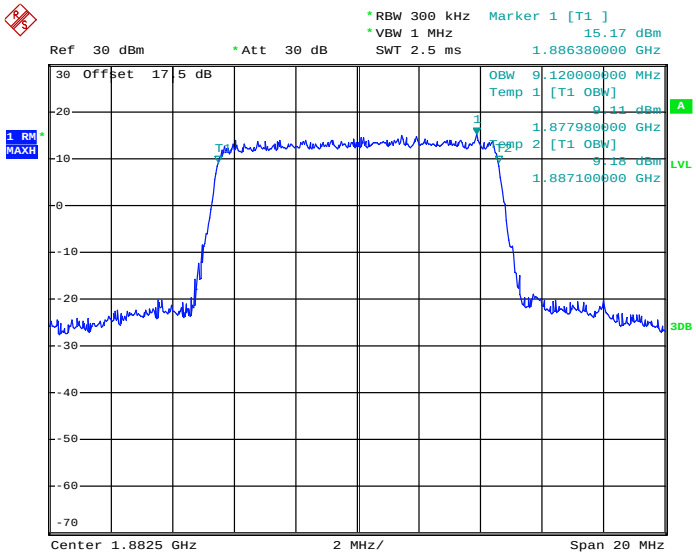


Date: 20.JAN.2013 19:46:37

Band :	LTE Band 25	BW / Mod. :	10MHz / 16QAM

99% Occupied Bandwidth Plot on Channel 26365

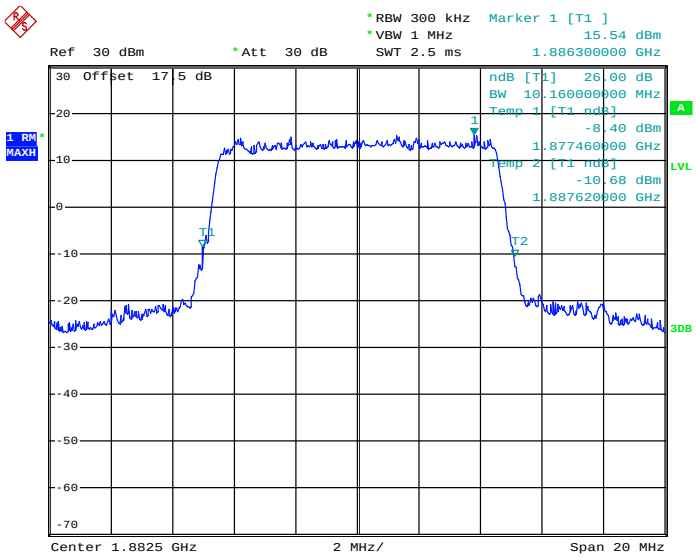
for RB Size 50, RB Offset 0



Date: 20.JAN.2013 19:49:13

26dB Bandwidth Plot on Channel 26365

for RB Size 50, RB Offset 0



Date: 20.JAN.2013 19:47:49

3.4 Conducted Band Edge and Spurious Emission Measurement

3.4.1 Limit

For operations in band 2, band 4 and band 25, the FCC limit is

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

For operations in band 12, the FCC limit is

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

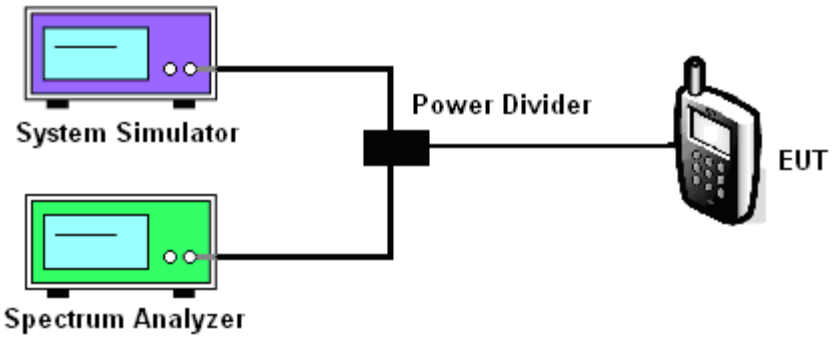
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via power divider.
2. The conducted spurious emission for the whole frequency range was taken.

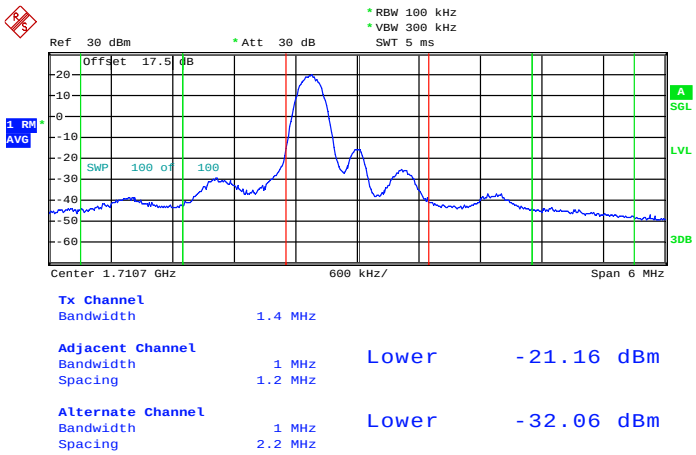
3.4.4 Test Setup



3.4.5 Test Plots of Conducted Band-Edge Emission

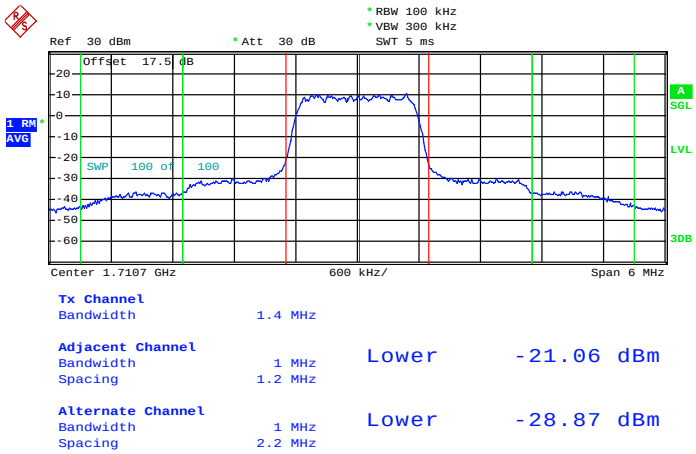
Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



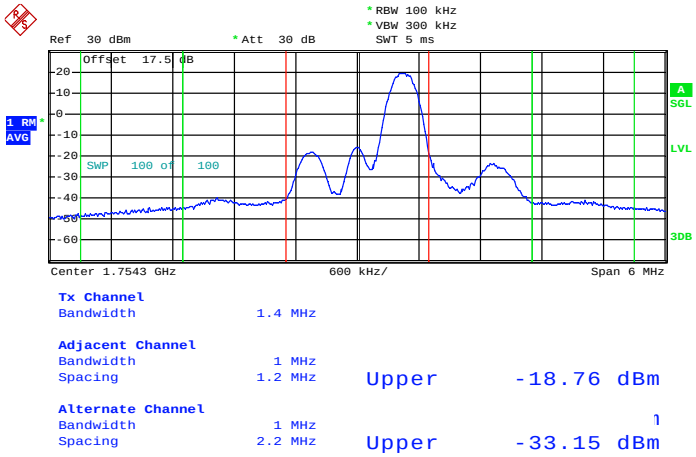
Date: 21.JAN.2013 16:18:00

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



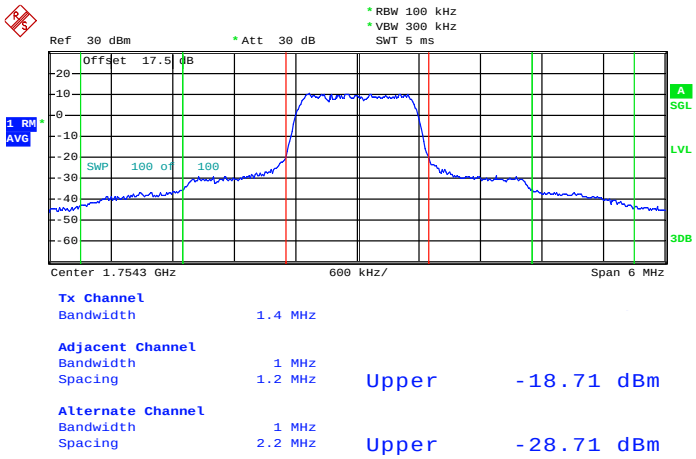
Date: 21.JAN.2013 16:16:41

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



Date: 21.JAN.2013 16:13:31

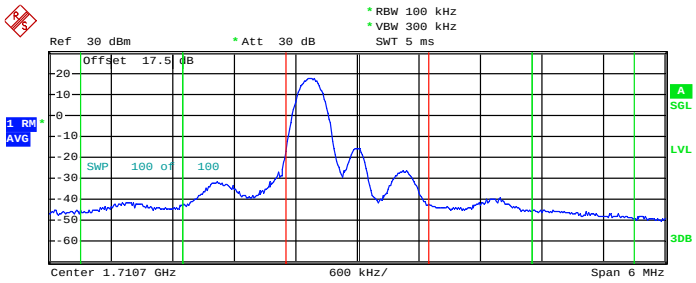
Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 21.JAN.2013 16:14:37

Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



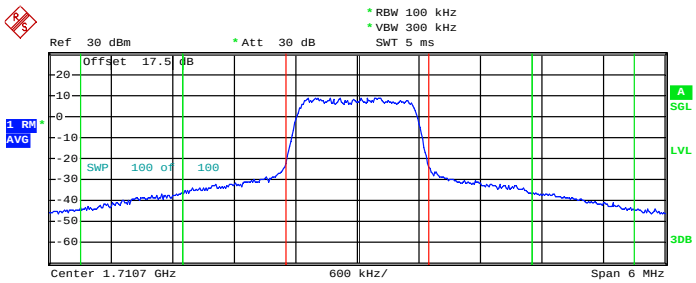
Tx Channel
Bandwidth 1.4 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz
Lower -23.21 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz
Lower -33.97 dBm

Date: 21.JAN.2013 16:17:42

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



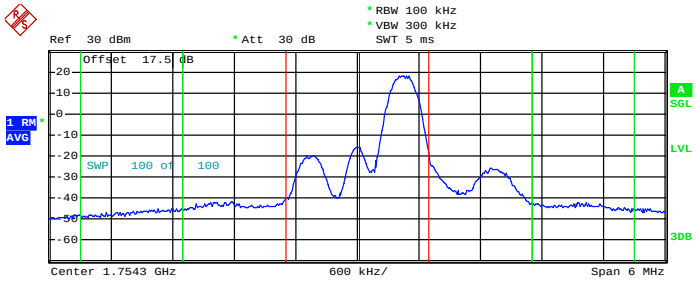
Tx Channel
Bandwidth 1.4 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz
Lower -21.50 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz
Lower -30.13 dBm

Date: 21.JAN.2013 16:16:58

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



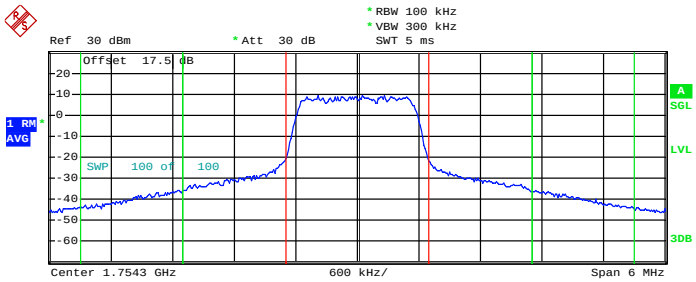
Tx Channel
Bandwidth 1.4 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz Upper -20.18 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz Upper -34.09 dBm

Date: 21.JAN.2013 16:13:49

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



Tx Channel
Bandwidth 1.4 MHz

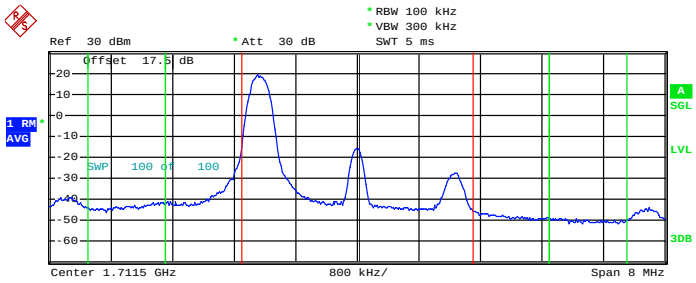
Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz Upper -19.59 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz Upper -29.59 dBm

Date: 21.JAN.2013 16:14:22

Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



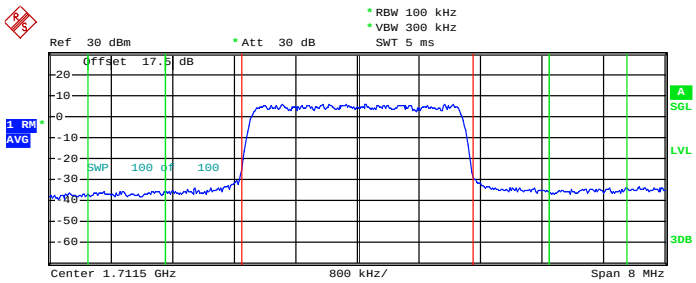
Tx Channel
Bandwidth 3 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz
Lower -21.85 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz
Lower -33.99 dBm

Date: 21.JAN.2013 16:25:35

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



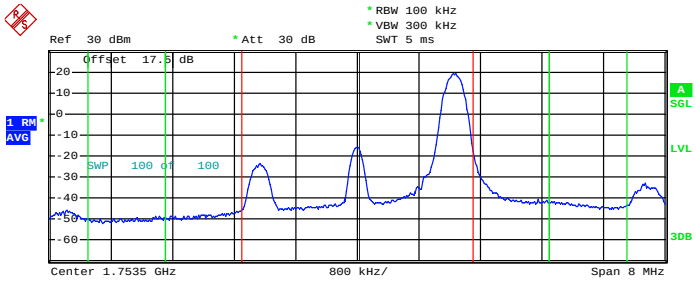
Tx Channel
Bandwidth 3 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz
Lower -24.59 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz
Lower -27.08 dBm

Date: 21.JAN.2013 16:24:10

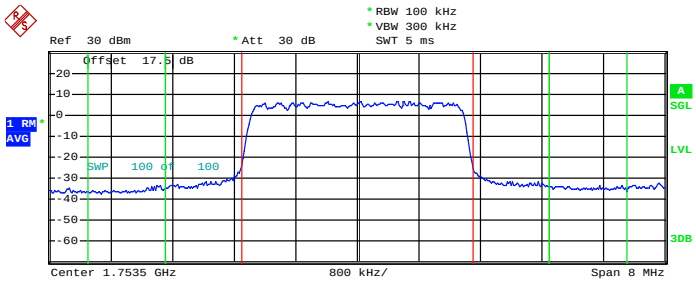
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Tx Channel			
Bandwidth	3 MHz		
Adjacent Channel			
Bandwidth	1 MHz		
Spacing	2 MHz	Upper	-21.63 dBm
Alternate Channel			
Bandwidth	1 MHz		
Spacing	3 MHz	Upper	-33.66 dBm

Date: 21.JAN.2013 16:21:36

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

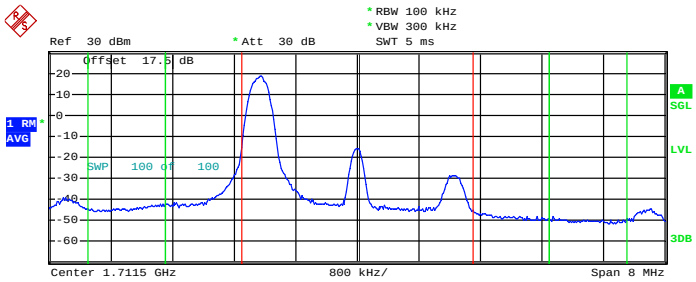


Tx Channel			
Bandwidth	3 MHz		
Adjacent Channel			
Bandwidth	1 MHz		
Spacing	2 MHz	Upper	-21.78 dBm
Alternate Channel			
Bandwidth	1 MHz		
Spacing	3 MHz	Upper	-24.81 dBm

Date: 21.JAN.2013 16:22:45

Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



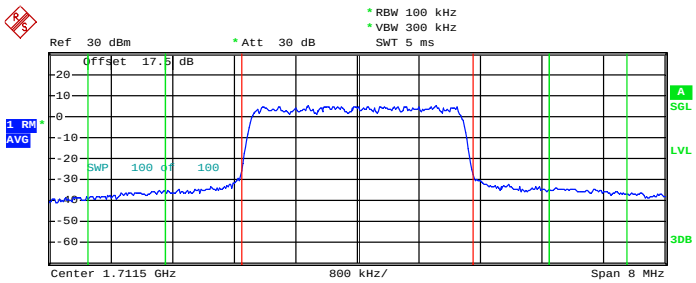
Tx Channel
Bandwidth 3 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz
Lower -22.34 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz
Lower -34.45 dBm

Date: 21.JAN.2013 16:25:18

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



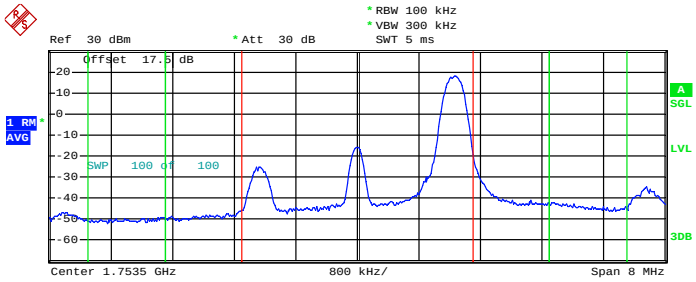
Tx Channel
Bandwidth 3 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz
Lower -24.32 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz
Lower -27.52 dBm

Date: 21.JAN.2013 16:24:46

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



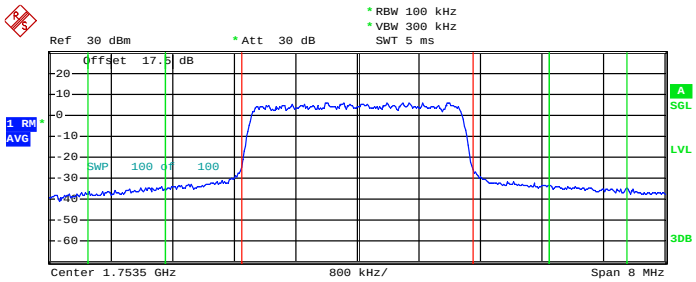
Tx Channel
Bandwidth 3 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz Upper -23.13 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -34.40 dBm

Date: 21.JAN.2013 16:21:52

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



Tx Channel
Bandwidth 3 MHz

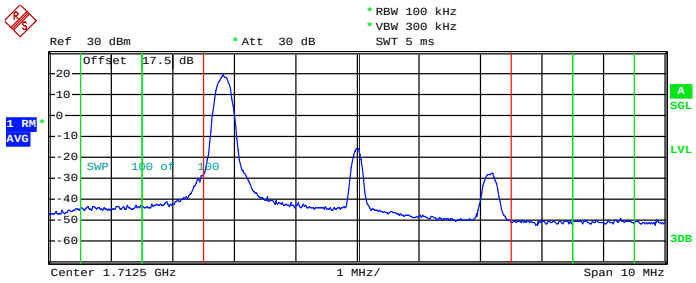
Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz Upper -22.05 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -25.22 dBm

Date: 21.JAN.2013 16:22:28

Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



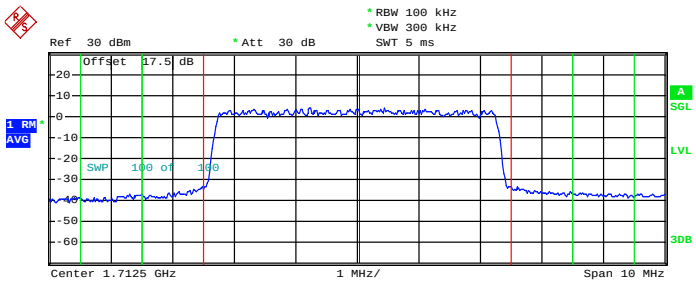
Tx Channel
Bandwidth 5 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz
Lower -27.41 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz
Lower -34.32 dBm

Date: 21.JAN.2013 16:27:11

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



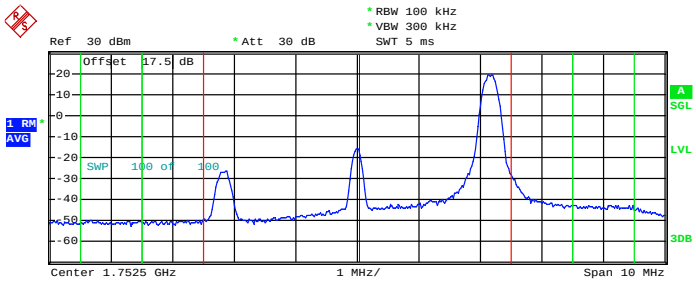
Tx Channel
Bandwidth 5 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz
Lower -27.16 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz
Lower -29.31 dBm

Date: 21.JAN.2013 16:28:28

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



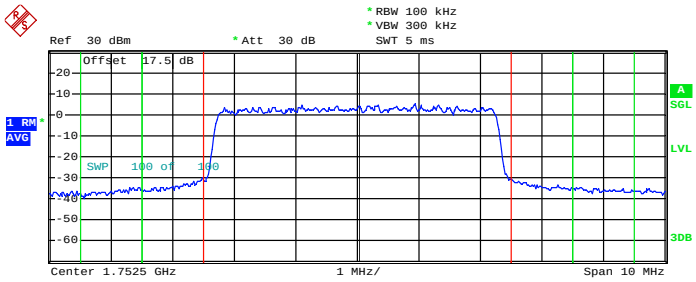
Tx Channel
Bandwidth 5 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -27.73 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz Upper -33.81 dBm

Date: 21.JAN.2013 16:30:21

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



Tx Channel
Bandwidth 5 MHz

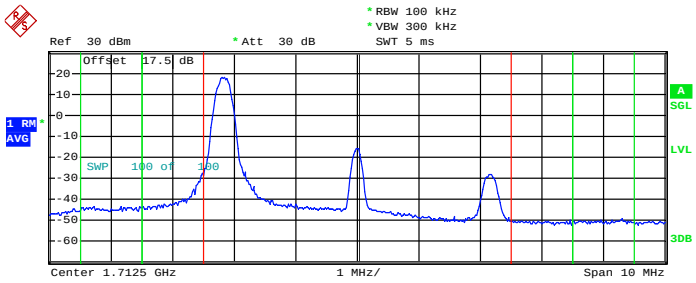
Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -23.90 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz Upper -26.09 dBm

Date: 21.JAN.2013 16:29:53

Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM

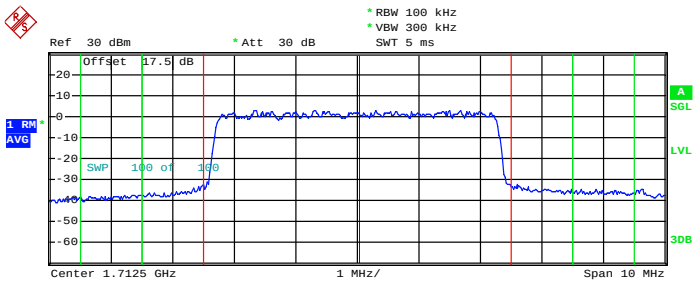
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Tx Channel			
Bandwidth	5 MHz		
Adjacent Channel			
Bandwidth	1 MHz	Lower	-28.16 dBm
Spacing	3 MHz		
Alternate Channel			
Bandwidth	1 MHz	Lower	-34.85 dBm
Spacing	4 MHz		

Date: 21.JAN.2013 16:27:28

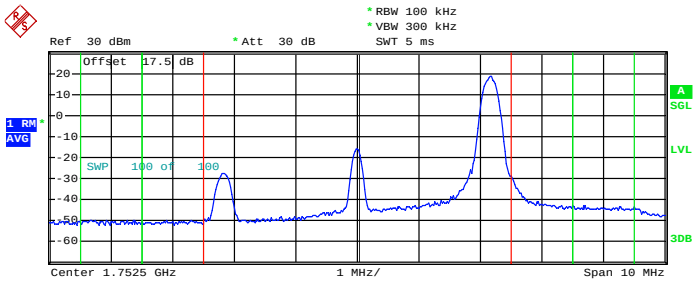
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Tx Channel			
Bandwidth	5 MHz		
Adjacent Channel			
Bandwidth	1 MHz	Lower	-26.77 dBm
Spacing	3 MHz		
Alternate Channel			
Bandwidth	1 MHz	Lower	-28.87 dBm
Spacing	4 MHz		

Date: 21.JAN.2013 16:28:45

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



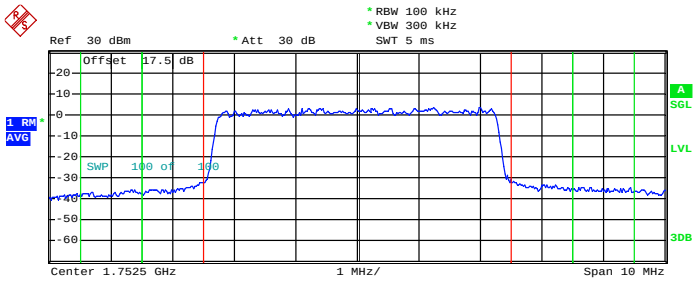
Tx Channel
Bandwidth 5 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -28.65 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz Upper -34.39 dBm

Date: 21.JAN.2013 16:30:40

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



Tx Channel
Bandwidth 5 MHz

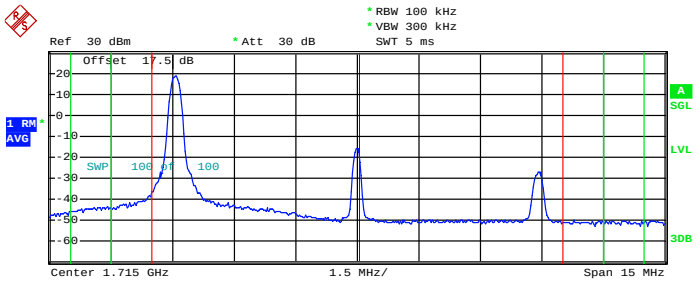
Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -24.31 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz Upper -26.07 dBm

Date: 21.JAN.2013 16:29:34

Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



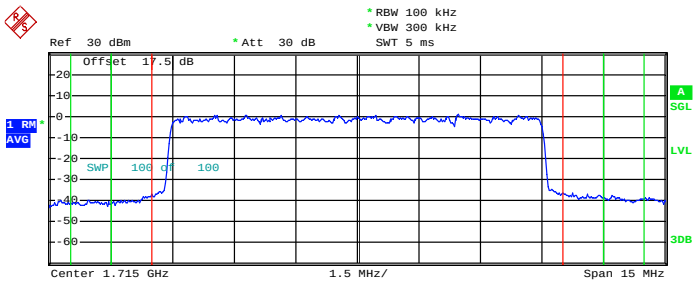
Tx Channel
Bandwidth 10 MHz

Adjacent Channel Lower -32.14 dBm
Bandwidth 1 MHz
Spacing 5.5 MHz

Alternate Channel Lower -35.16 dBm
Bandwidth 1 MHz
Spacing 6.5 MHz

Date: 21.JAN.2013 16:36:34

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



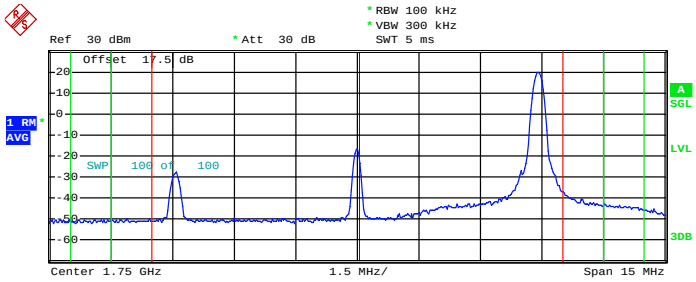
Tx Channel
Bandwidth 10 MHz

Adjacent Channel Lower -30.24 dBm
Bandwidth 1 MHz
Spacing 5.5 MHz

Alternate Channel Lower -31.34 dBm
Bandwidth 1 MHz
Spacing 6.5 MHz

Date: 21.JAN.2013 16:35:02

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



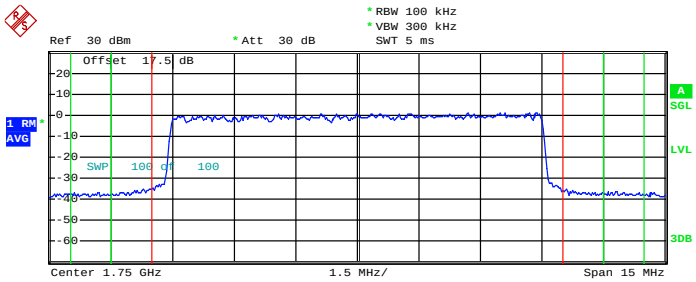
Tx Channel
Bandwidth 10 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz Upper -31.40 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz Upper -34.43 dBm

Date: 21.JAN.2013 16:33:06

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



Tx Channel
Bandwidth 10 MHz

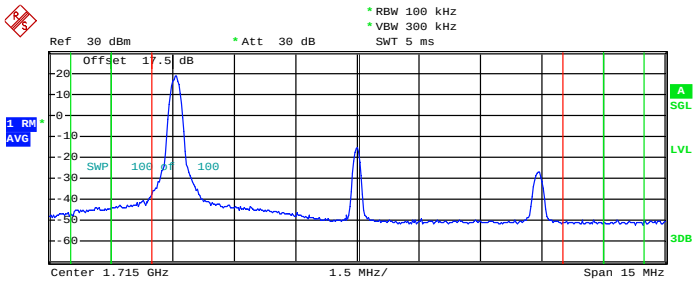
Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz Upper -27.12 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz Upper -27.71 dBm

Date: 21.JAN.2013 16:34:27

Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



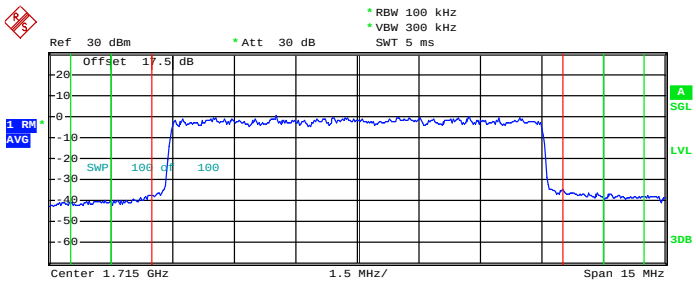
Tx Channel
Bandwidth 10 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz
Lower -32.74 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz
Lower -35.56 dBm

Date: 21.JAN.2013 16:36:10

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



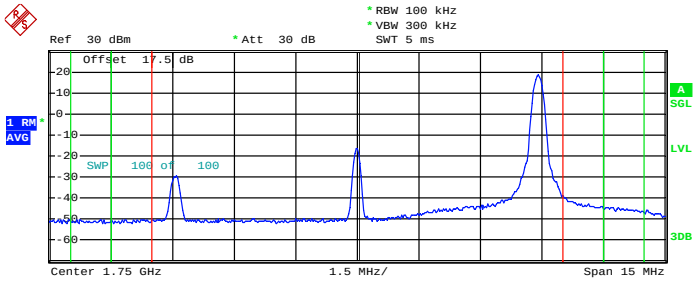
Tx Channel
Bandwidth 10 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz
Lower -30.04 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz
Lower -31.43 dBm

Date: 21.JAN.2013 16:35:24

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



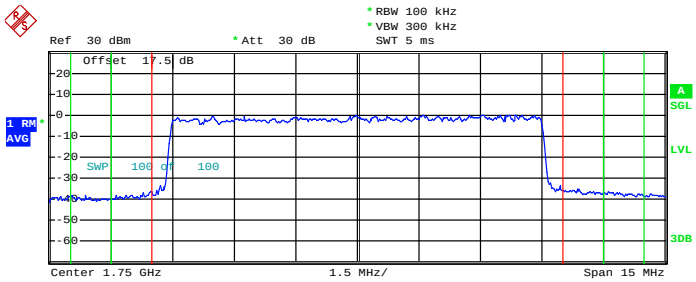
Tx Channel
Bandwidth 10 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz Upper -32.81 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz Upper -35.61 dBm

Date: 21.JAN.2013 16:33:27

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



Tx Channel
Bandwidth 10 MHz

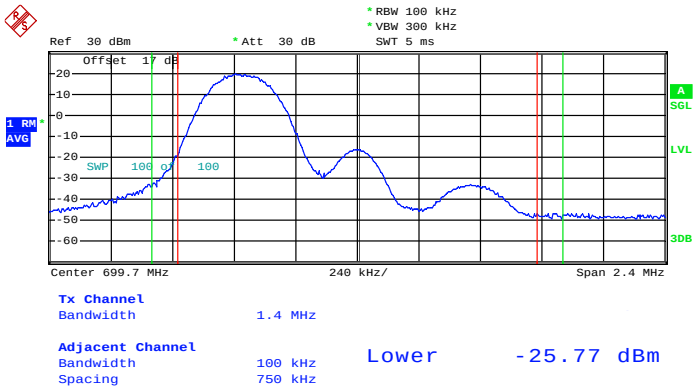
Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz Upper -26.79 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz Upper -27.65 dBm

Date: 21.JAN.2013 16:33:50

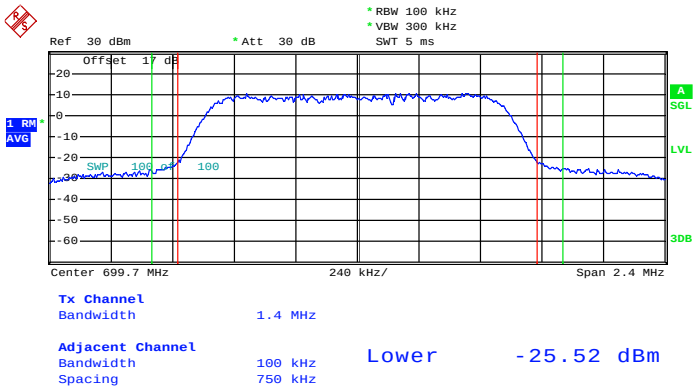
Band :	LTE Band 12	BW / Mod. :	1.4MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



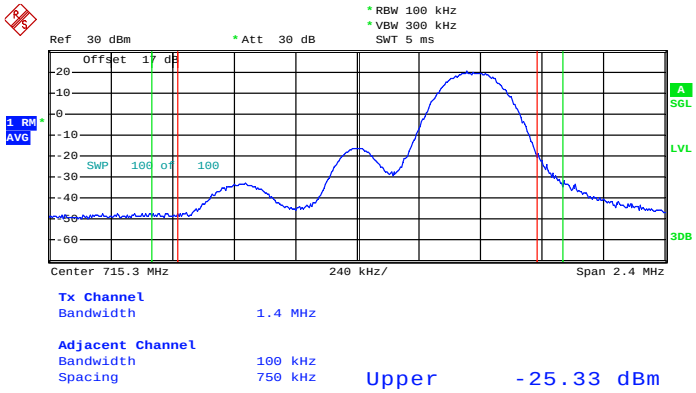
Date: 21.JAN.2013 16:48:47

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



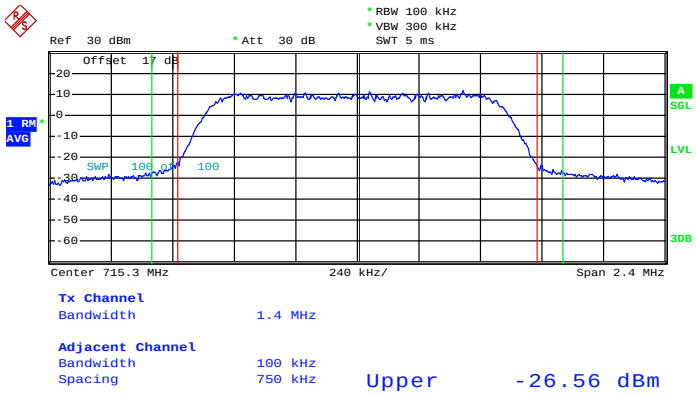
Date: 21.JAN.2013 16:47:37

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



Date: 21.JAN.2013 16:45:54

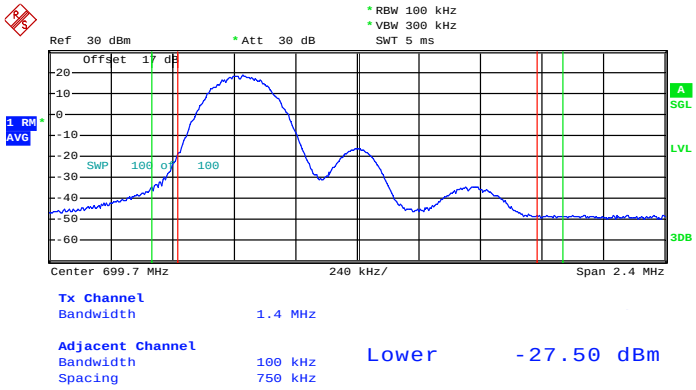
Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 21.JAN.2013 16:46:52

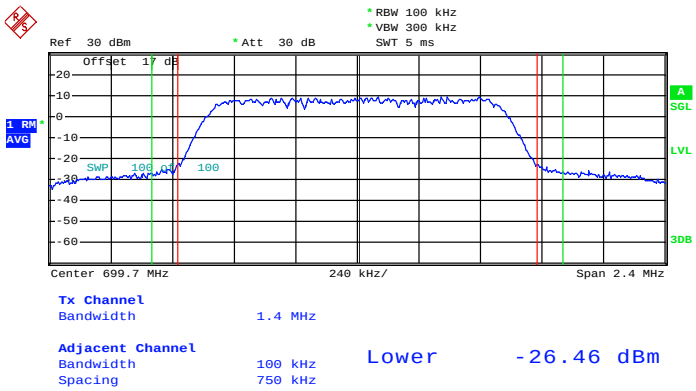
Band :	LTE Band 12	BW / Mod. :	1.4MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



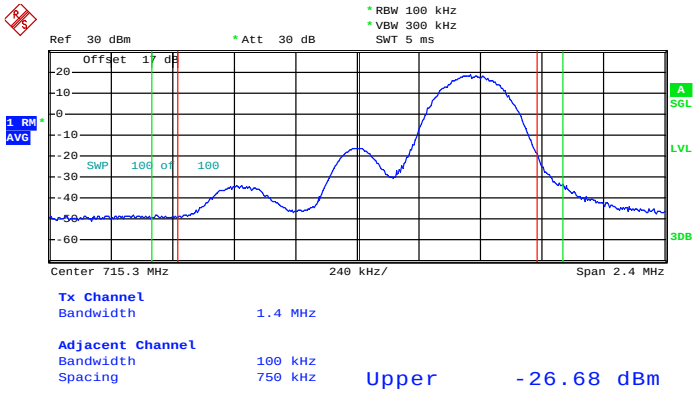
Date: 21.JAN.2013 16:48:27

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



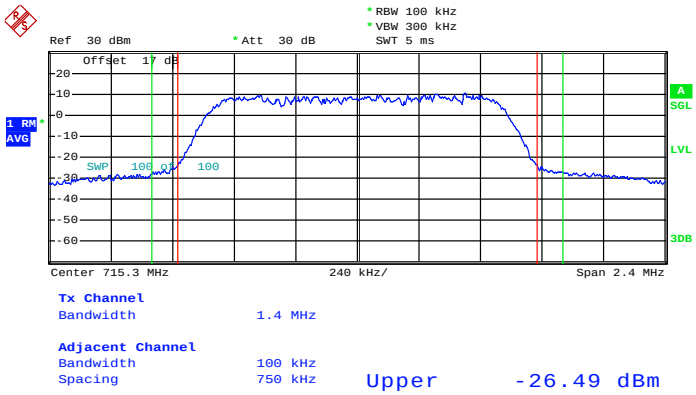
Date: 21.JAN.2013 16:48:00

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



Date: 21.JAN.2013 16:46:13

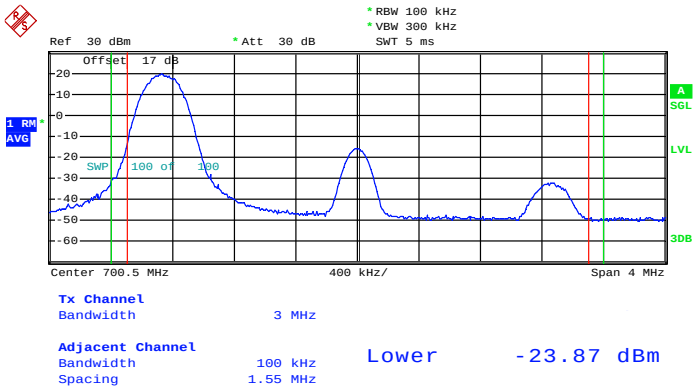
Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 21.JAN.2013 16:46:36

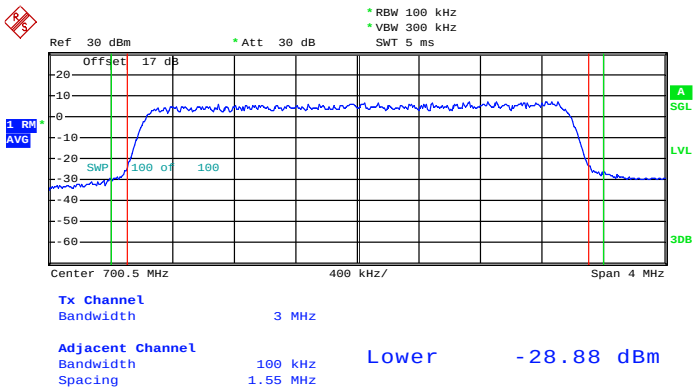
Band :	LTE Band 12	BW / Mod. :	3MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



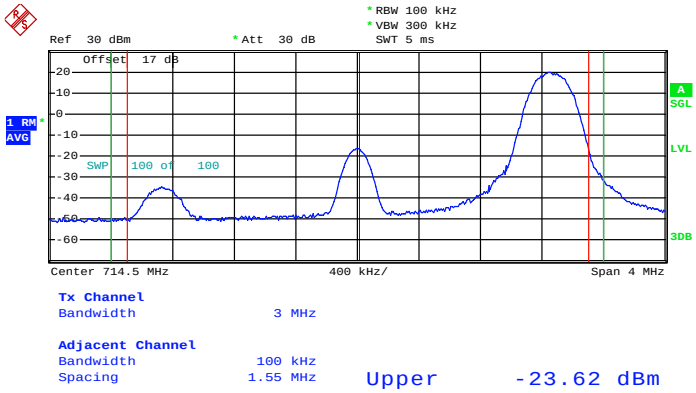
Date: 21.JAN.2013 16:54:32

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



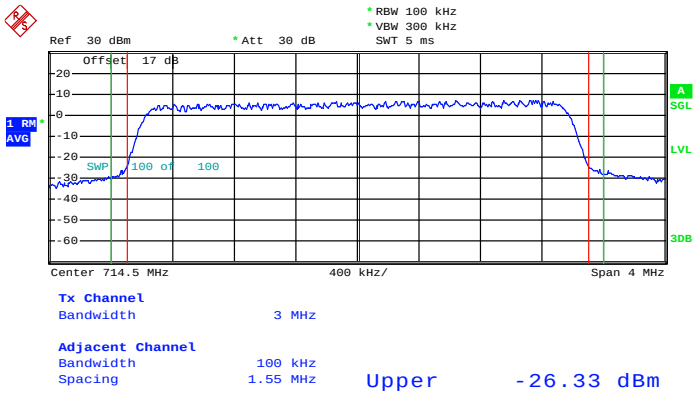
Date: 21.JAN.2013 16:55:57

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



Date: 21.JAN.2013 16:58:51

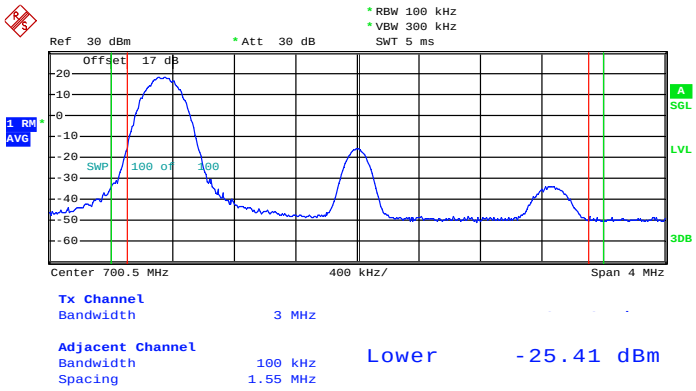
Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 21.JAN.2013 16:57:13

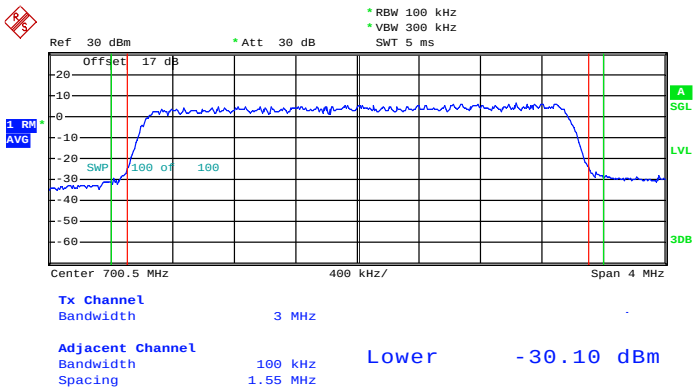
Band :	LTE Band 12	BW / Mod. :	3MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



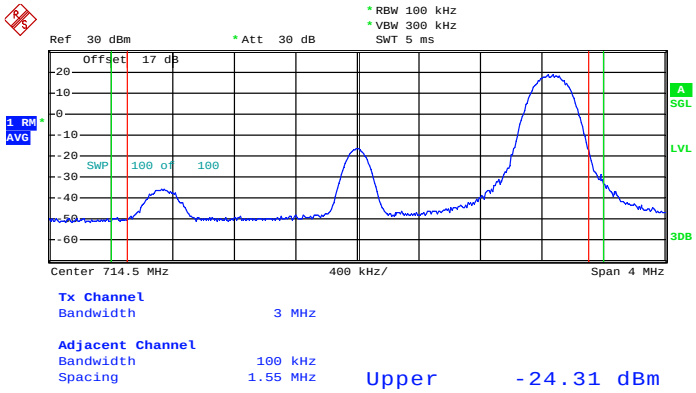
Date: 21.JAN.2013 16:54:56

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



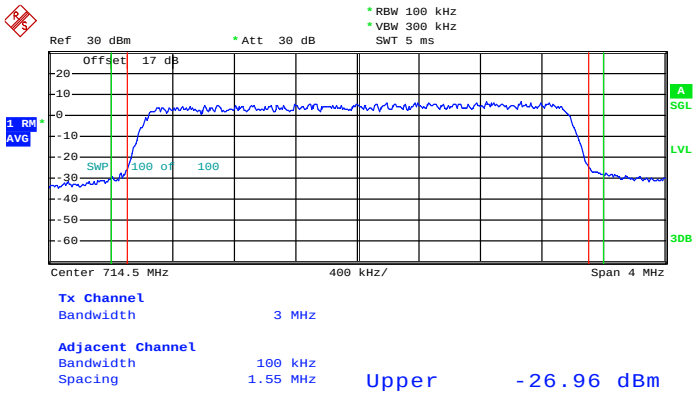
Date: 21.JAN.2013 16:55:37

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



Date: 21.JAN.2013 16:58:03

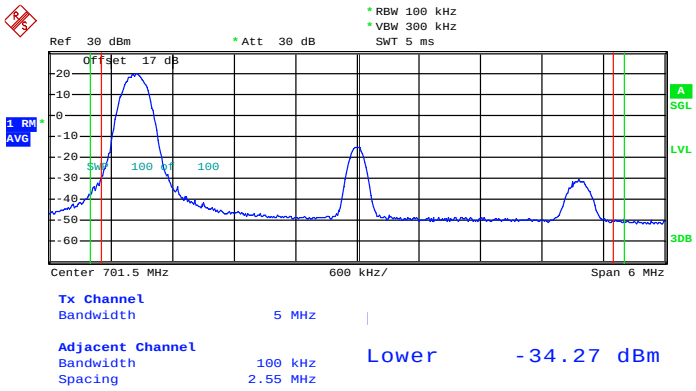
Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 21.JAN.2013 16:57:35

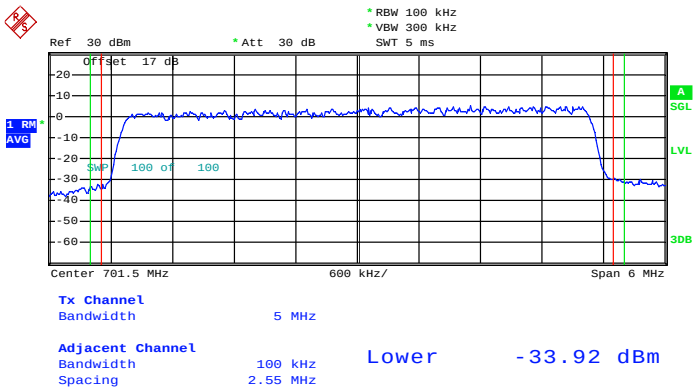
Band :	LTE Band 12	BW / Mod. :	5MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



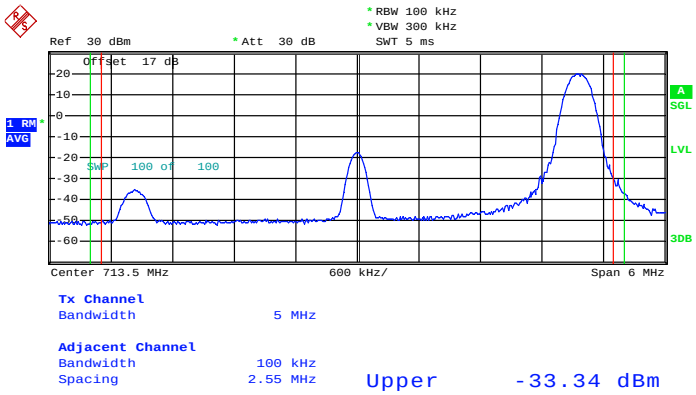
Date: 21.JAN.2013 17:12:23

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



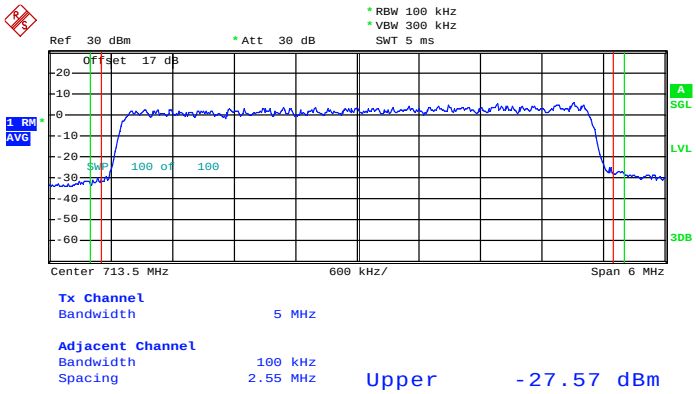
Date: 21.JAN.2013 17:12:02

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



Date: 21.JAN.2013 17:09:59

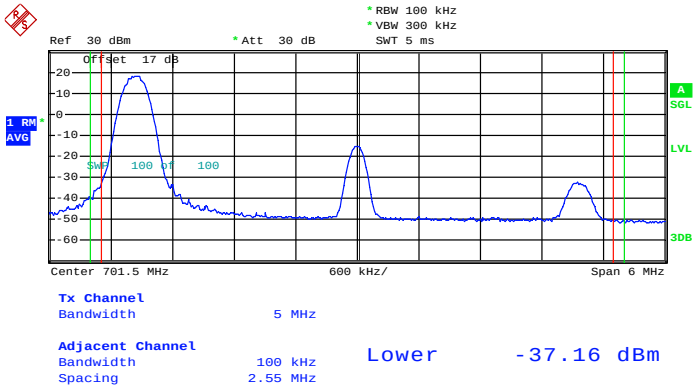
Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 21.JAN.2013 17:10:40

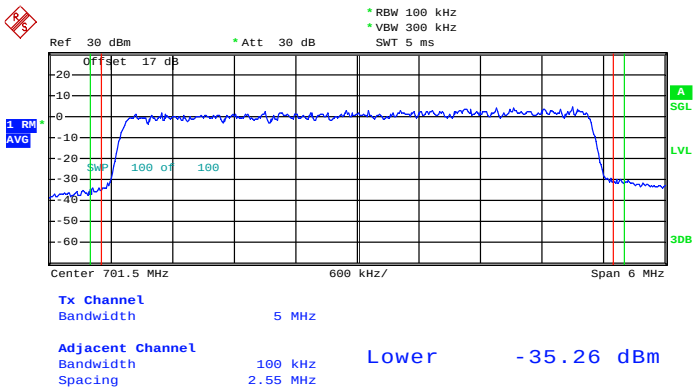
Band :	LTE Band 12	BW / Mod. :	5MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



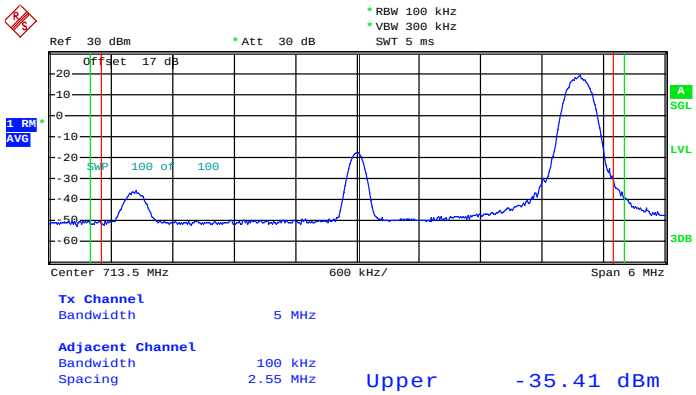
Date: 21.JAN.2013 17:13:04

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



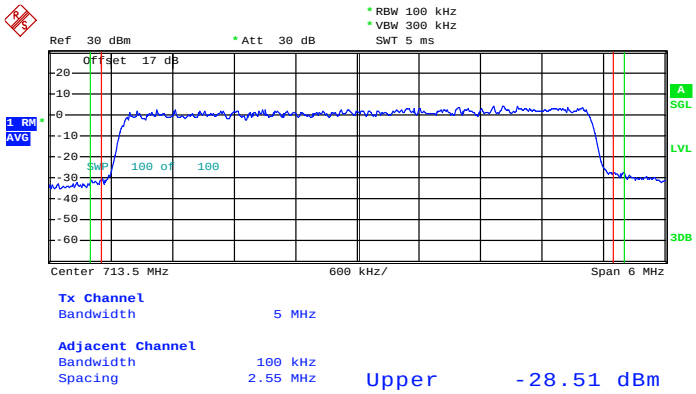
Date: 21.JAN.2013 17:11:44

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



Date: 21.JAN.2013 17:09:23

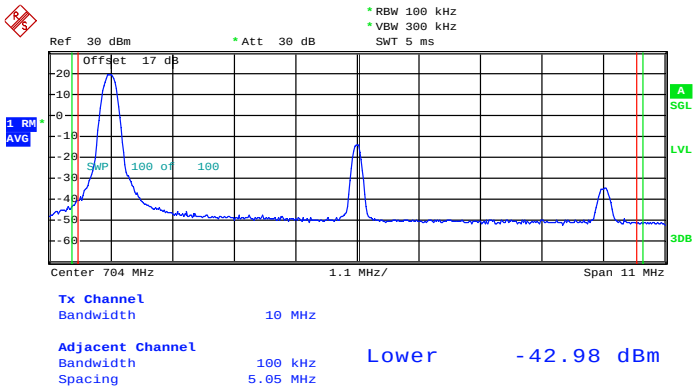
Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 21.JAN.2013 17:10:59

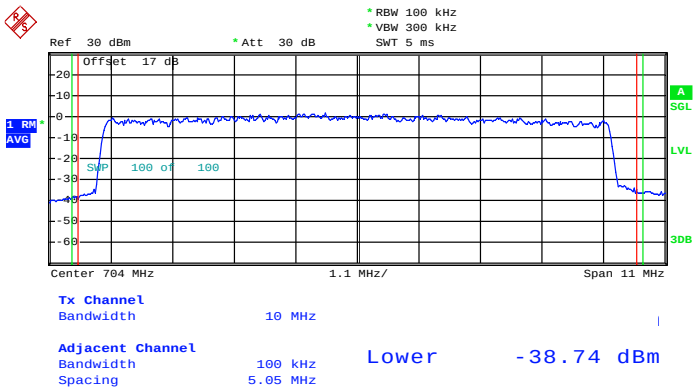
Band :	LTE Band 12	BW / Mod. :	10MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



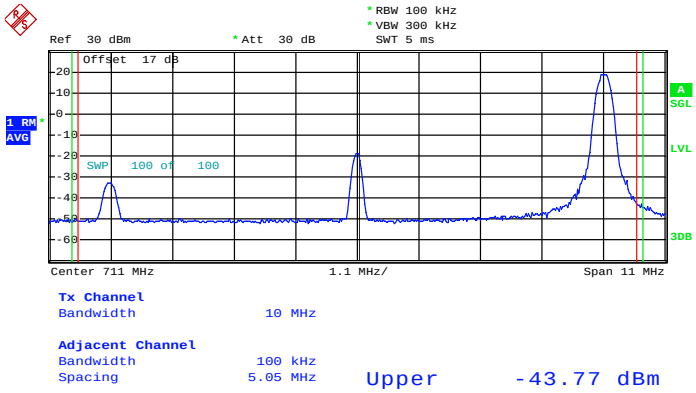
Date: 21.JAN.2013 17:15:08

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



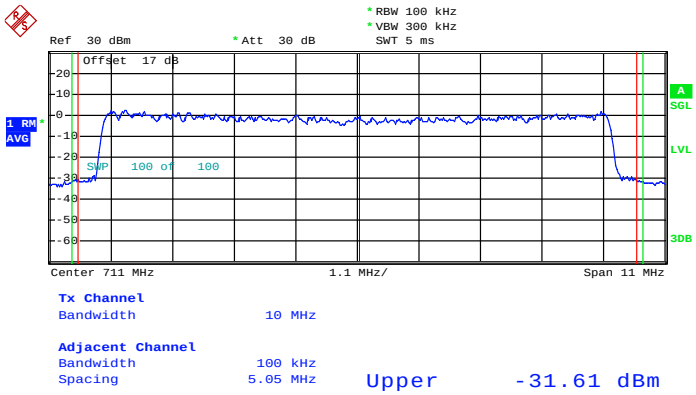
Date: 21.JAN.2013 17:16:50

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



Date: 21.JAN.2013 17:19:11

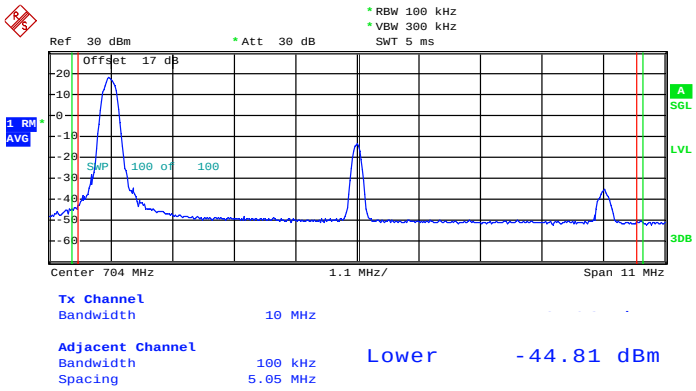
Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 21.JAN.2013 17:17:54

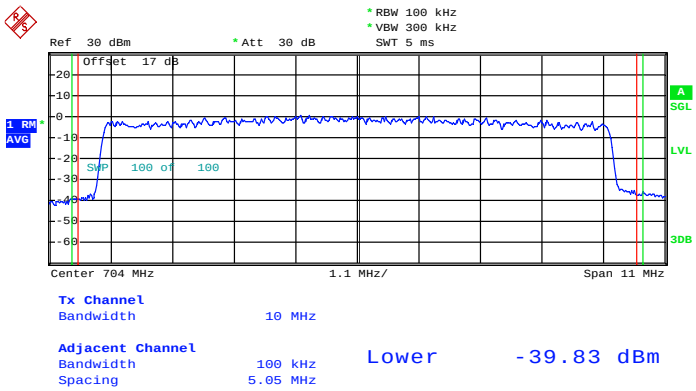
Band :	LTE Band 12	BW / Mod. :	10MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



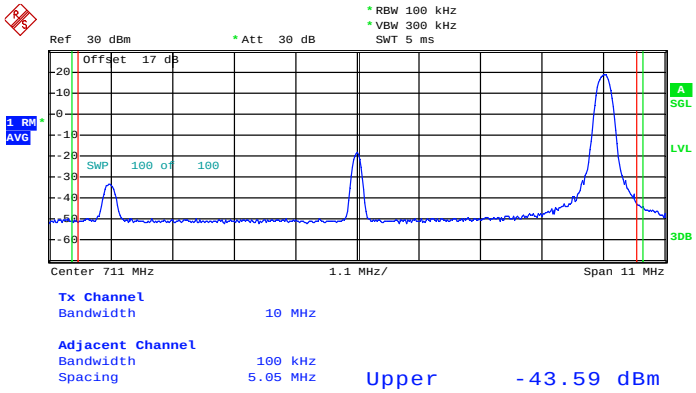
Date: 21.JAN.2013 17:16:00

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



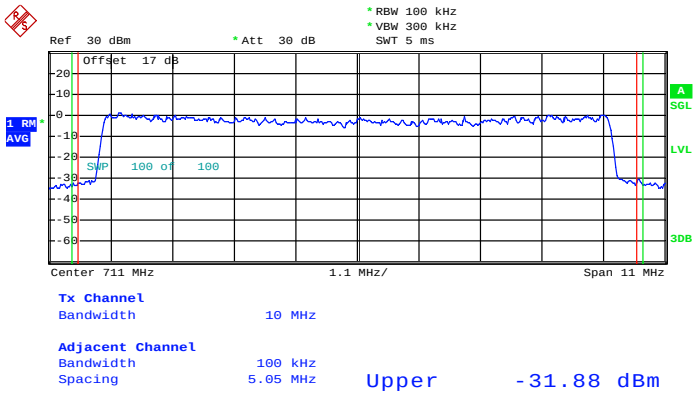
Date: 21.JAN.2013 17:16:28

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



Date: 21.JAN.2013 17:18:47

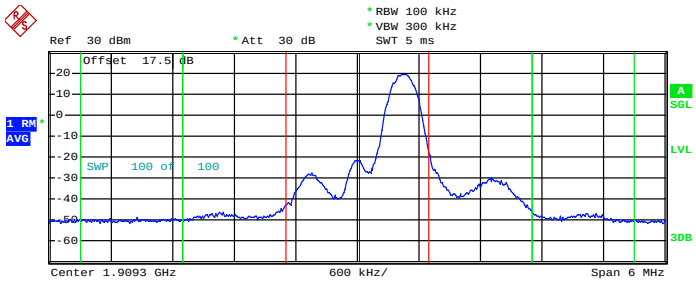
Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 21.JAN.2013 17:18:17

Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK

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



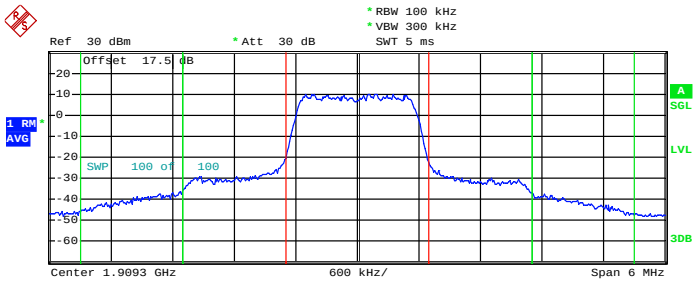
Tx Channel
Bandwidth 1.4 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz Upper -21.47 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz Upper -38.94 dBm

Date: 25.JAN.2013 13:06:18

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



Tx Channel
Bandwidth 1.4 MHz

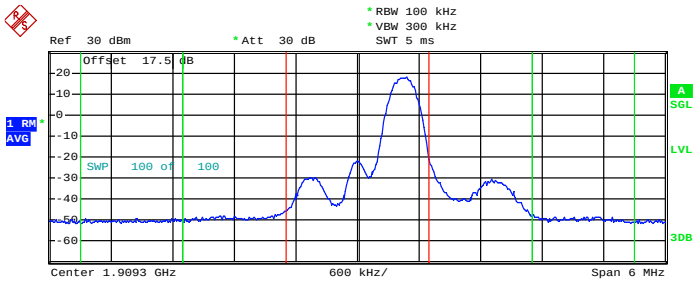
Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz Upper -20.51 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz Upper -31.53 dBm

Date: 25.JAN.2013 13:05:02

Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM

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



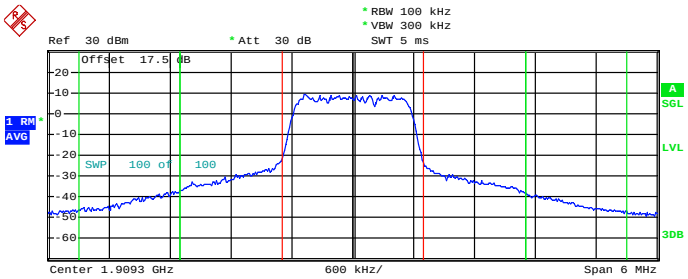
Tx Channel
Bandwidth 1.4 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz Upper -23.58 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz Upper -39.85 dBm

Date: 25.JAN.2013 13:05:53

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



Tx Channel
Bandwidth 1.4 MHz

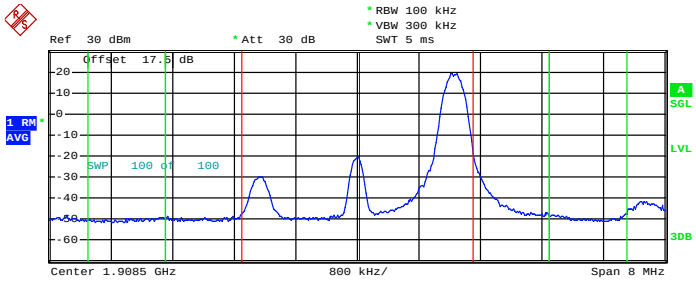
Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz Upper -21.40 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz Upper -32.87 dBm

Date: 25.JAN.2013 13:05:25

Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK

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



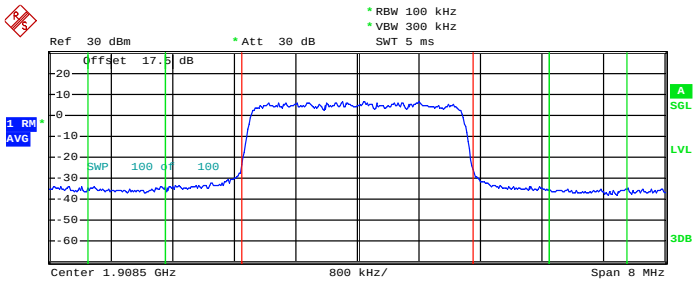
Tx Channel
Bandwidth 3 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz Upper -22.32 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -39.81 dBm

Date: 25.JAN.2013 13:09:18

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



Tx Channel
Bandwidth 3 MHz

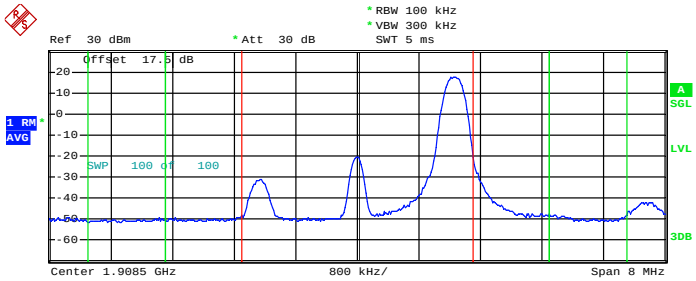
Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz Upper -23.33 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -26.52 dBm

Date: 25.JAN.2013 13:08:10

Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM

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



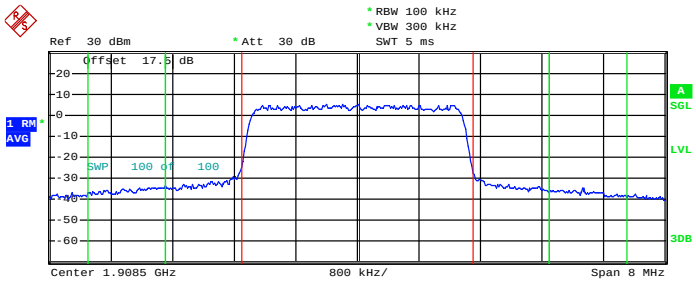
Tx Channel
Bandwidth 3 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz Upper -24.25 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -40.02 dBm

Date: 25.JAN.2013 13:08:58

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



Tx Channel
Bandwidth 3 MHz

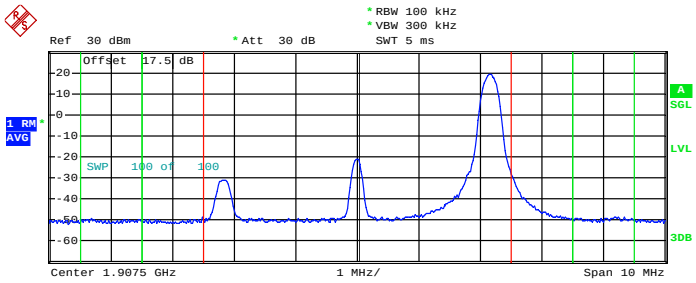
Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz Upper -23.53 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -27.05 dBm

Date: 25.JAN.2013 13:08:33

Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK

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



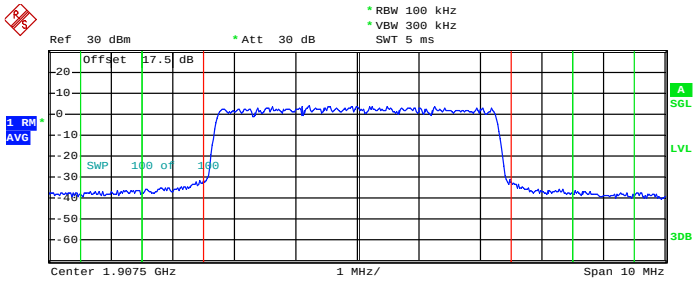
Tx Channel
Bandwidth 5 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -29.53 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz Upper -39.92 dBm

Date: 25.JAN.2013 13:12:01

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



Tx Channel
Bandwidth 5 MHz

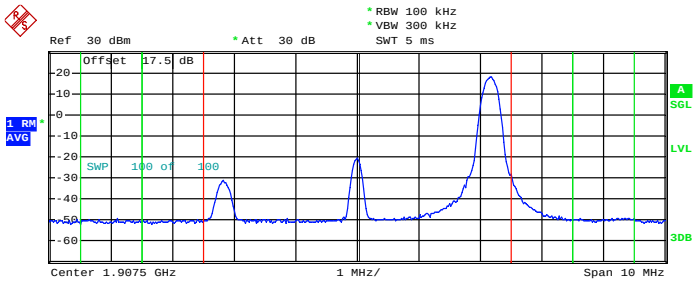
Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -26.22 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz Upper -28.46 dBm

Date: 25.JAN.2013 13:10:57

Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM

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



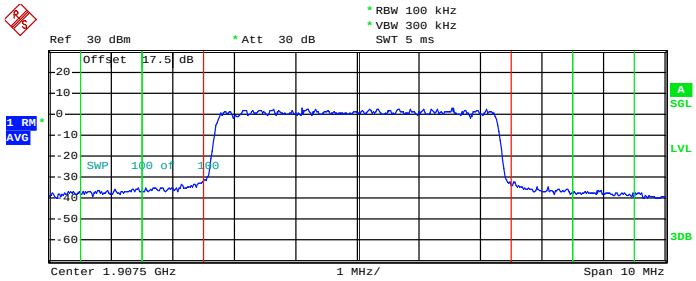
Tx Channel
Bandwidth 5 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -30.87 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz Upper -40.04 dBm

Date: 25.JAN.2013 13:11:42

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



Tx Channel
Bandwidth 5 MHz

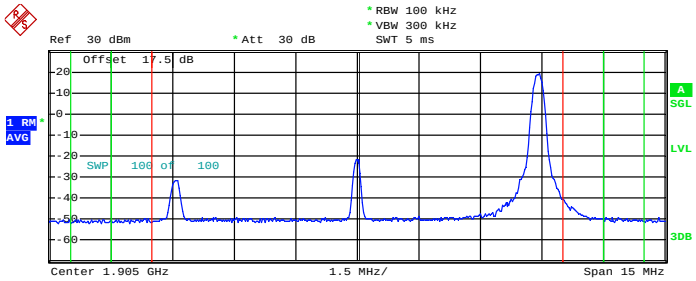
Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -25.88 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz Upper -27.85 dBm

Date: 25.JAN.2013 13:11:17

Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK

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



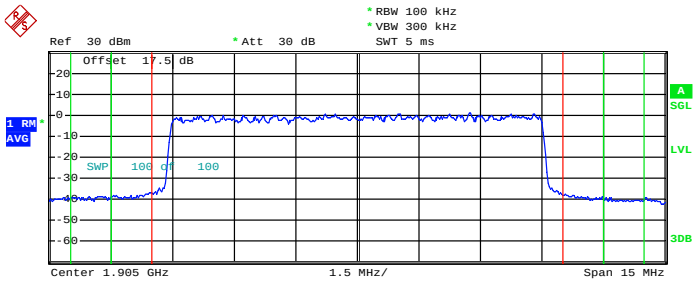
Tx Channel
Bandwidth 10 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz Upper -36.45 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz Upper -40.56 dBm

Date: 25.JAN.2013 13:14:43

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



Tx Channel
Bandwidth 10 MHz

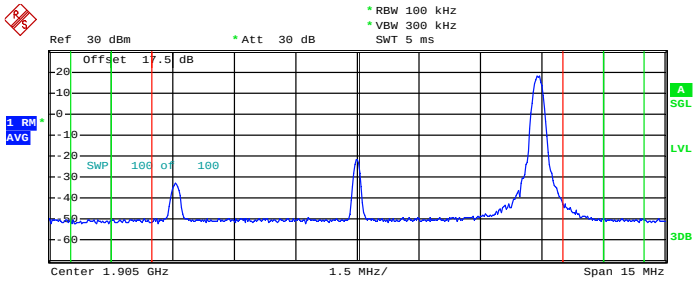
Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz Upper -29.17 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz Upper -30.64 dBm

Date: 25.JAN.2013 13:13:31

Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM

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



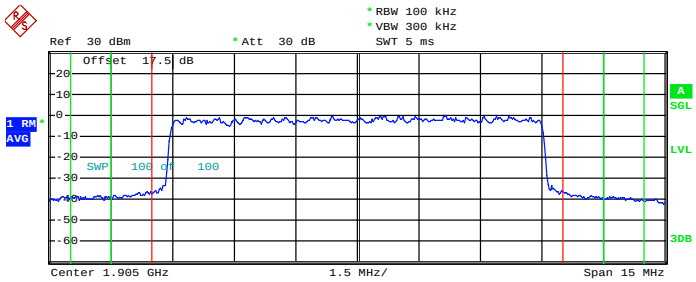
Tx Channel
Bandwidth 10 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz Upper -37.53 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz Upper -40.68 dBm

Date: 25.JAN.2013 13:14:25

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



Tx Channel
Bandwidth 10 MHz

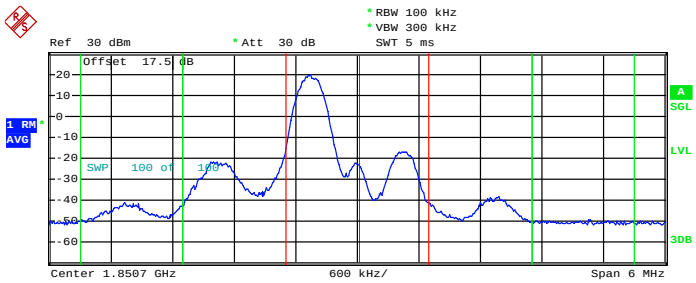
Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz Upper -28.56 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz Upper -29.90 dBm

Date: 25.JAN.2013 13:13:55

Band :	LTE Band 25	BW / Mod. :	1.4MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



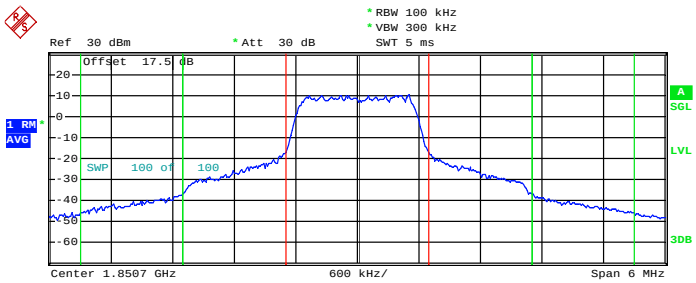
Tx Channel
Bandwidth 1.4 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz
Lower -17.09 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz
Lower -35.48 dBm

Date: 21.JAN.2013 17:33:03

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



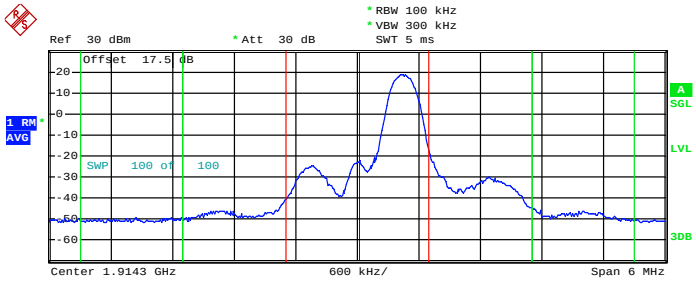
Tx Channel
Bandwidth 1.4 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz
Lower -15.23 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz
Lower -31.65 dBm

Date: 21.JAN.2013 17:31:56

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



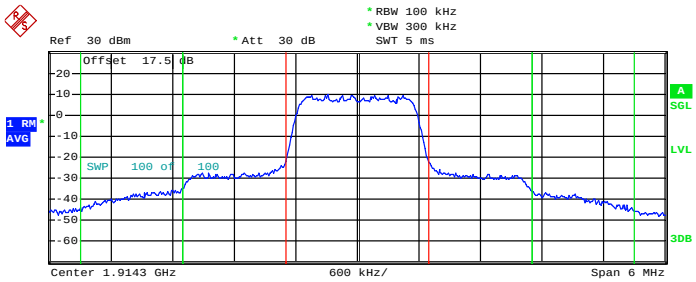
Tx Channel
Bandwidth 1.4 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz Upper -20.71 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz Upper -38.23 dBm

Date: 21.JAN.2013 17:29:39

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



Tx Channel
Bandwidth 1.4 MHz

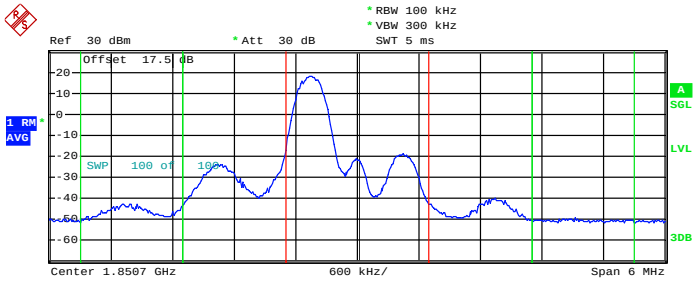
Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz Upper -18.90 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz Upper -30.08 dBm

Date: 21.JAN.2013 17:30:55

Band :	LTE Band 25	BW / Mod. :	1.4MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



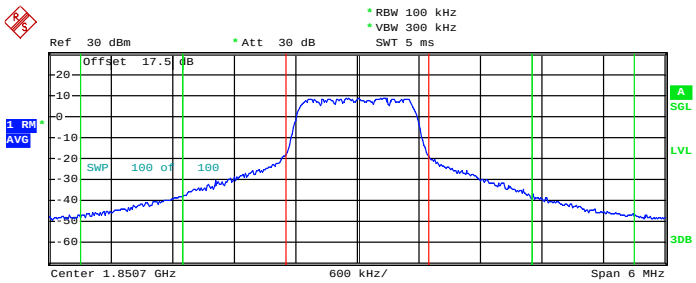
Tx Channel
Bandwidth 1.4 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz
Lower -19.14 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz
Lower -36.25 dBm

Date: 21.JAN.2013 17:32:46

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



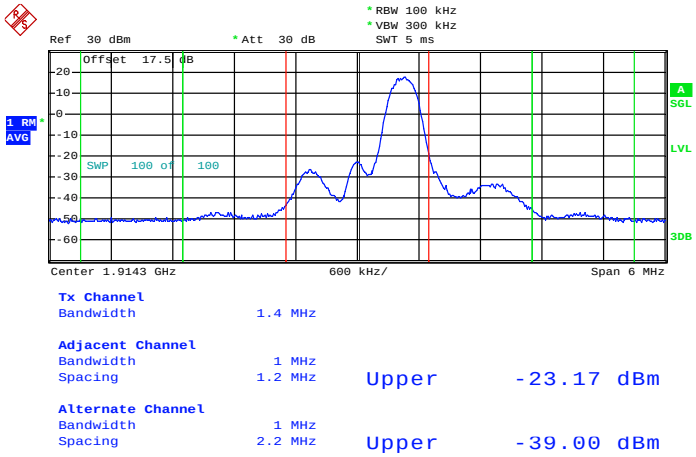
Tx Channel
Bandwidth 1.4 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz
Lower -17.28 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz
Lower -32.68 dBm

Date: 21.JAN.2013 17:32:26

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



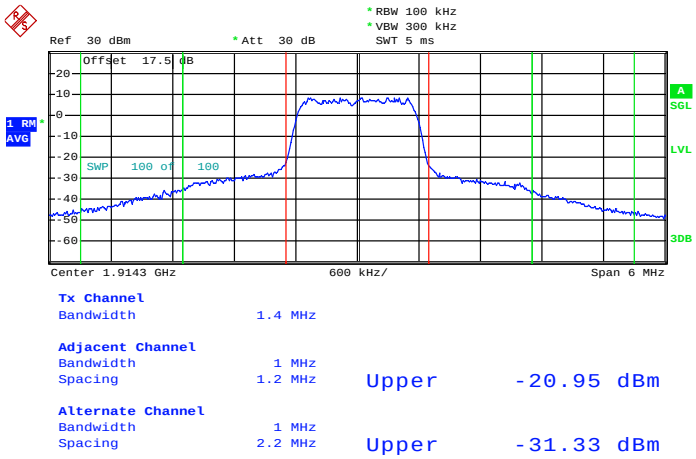
Tx Channel
Bandwidth 1.4 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz Upper -23.17 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz Upper -39.00 dBm

Date: 21.JAN.2013 17:30:05

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



Tx Channel
Bandwidth 1.4 MHz

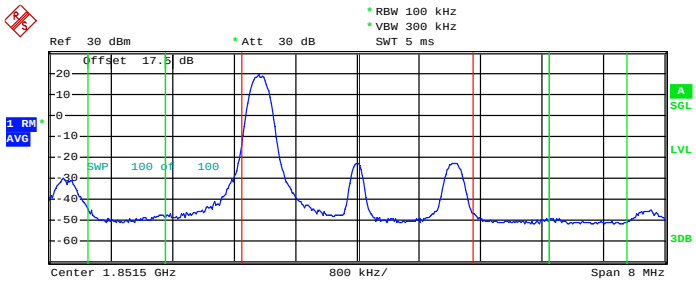
Adjacent Channel
Bandwidth 1 MHz
Spacing 1.2 MHz Upper -20.95 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 2.2 MHz Upper -31.33 dBm

Date: 21.JAN.2013 17:30:37

Band :	LTE Band 25	BW / Mod. :	3MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



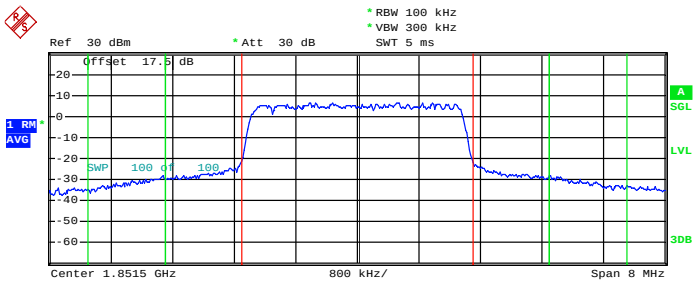
Tx Channel
Bandwidth 3 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz
Lower -21.70 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz
Lower -39.31 dBm

Date: 21.JAN.2013 17:35:19

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



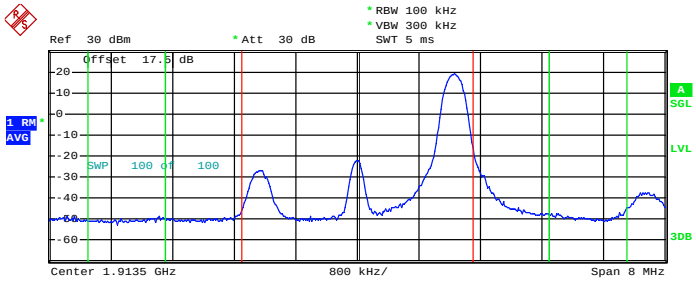
Tx Channel
Bandwidth 3 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz
Lower -17.52 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz
Lower -22.14 dBm

Date: 21.JAN.2013 17:37:39

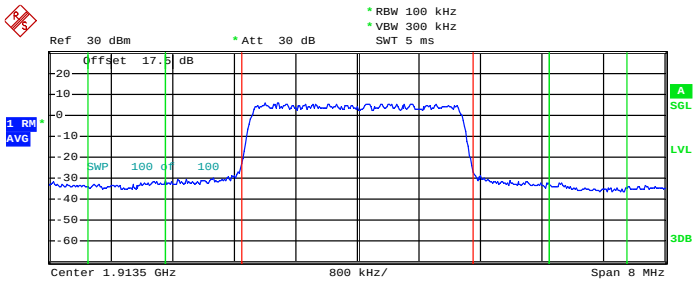
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Tx Channel			
Bandwidth	3 MHz		
Adjacent Channel			
Bandwidth	1 MHz		
Spacing	2 MHz	Upper	-20.44 dBm
Alternate Channel			
Bandwidth	1 MHz		
Spacing	3 MHz	Upper	-39.21 dBm

Date: 21.JAN.2013 17:40:26

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

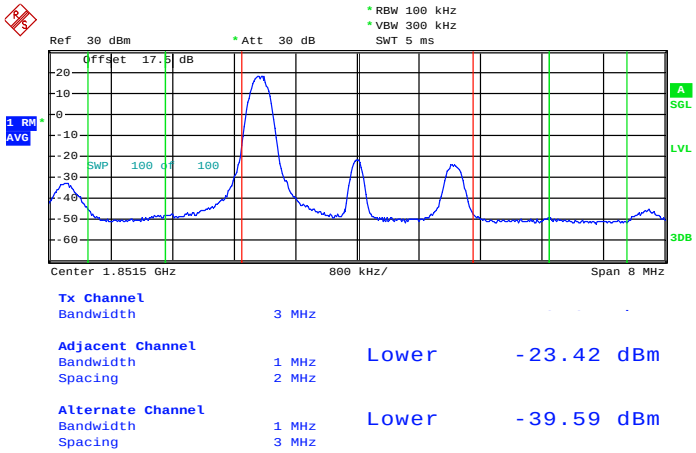


Tx Channel			
Bandwidth	3 MHz		
Adjacent Channel			
Bandwidth	1 MHz		
Spacing	2 MHz	Upper	-21.89 dBm
Alternate Channel			
Bandwidth	1 MHz		
Spacing	3 MHz	Upper	-25.00 dBm

Date: 21.JAN.2013 17:38:58

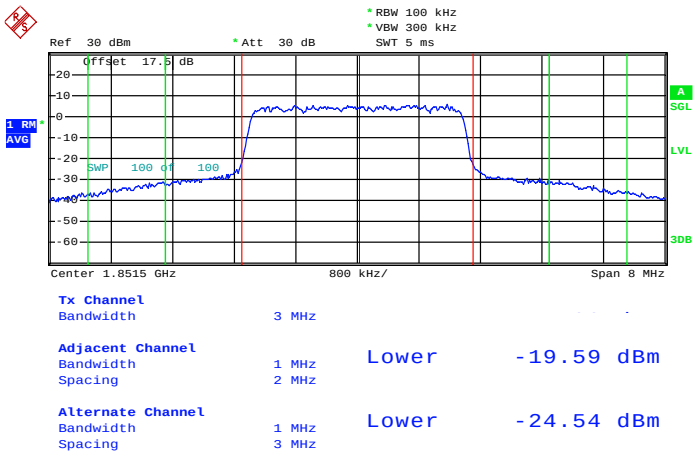
Band :	LTE Band 25	BW / Mod. :	3MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



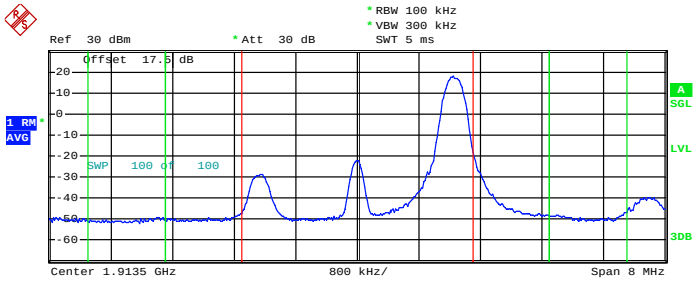
Date: 21.JAN.2013 17:35:45

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



Date: 21.JAN.2013 17:37:15

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



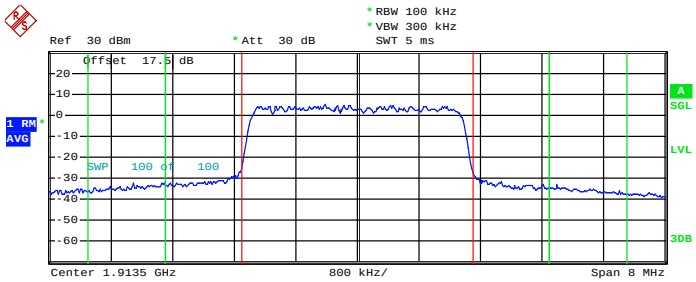
Tx Channel
Bandwidth 3 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz Upper -21.91 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -39.61 dBm

Date: 21.JAN.2013 17:40:08

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



Tx Channel
Bandwidth 3 MHz

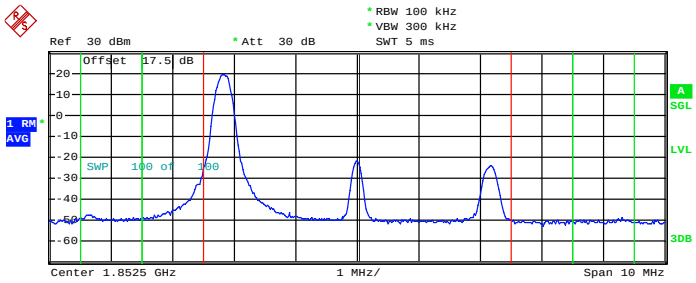
Adjacent Channel
Bandwidth 1 MHz
Spacing 2 MHz Upper -23.12 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -25.97 dBm

Date: 21.JAN.2013 17:39:32

Band :	LTE Band 25	BW / Mod. :	5MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



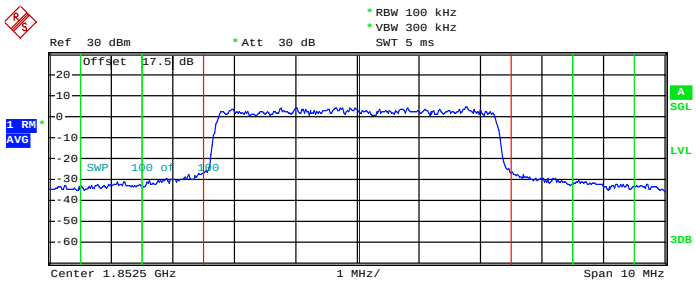
Tx Channel
Bandwidth 5 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz
Lower -29.39 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz
Lower -39.36 dBm

Date: 21.JAN.2013 17:44:21

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



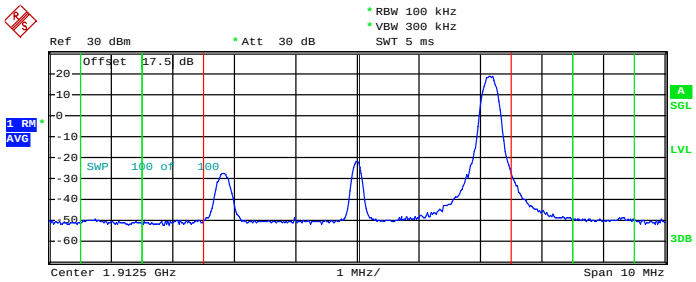
Tx Channel
Bandwidth 5 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz
Lower -20.32 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz
Lower -23.19 dBm

Date: 21.JAN.2013 17:44:42

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



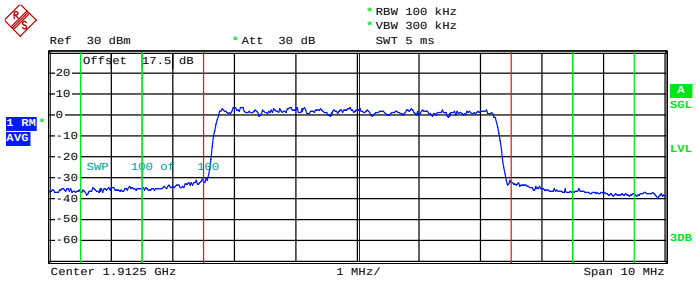
Tx Channel
Bandwidth 5 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -29.00 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz Upper -39.68 dBm

Date: 21.JAN.2013 18:31:41

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



Tx Channel
Bandwidth 5 MHz

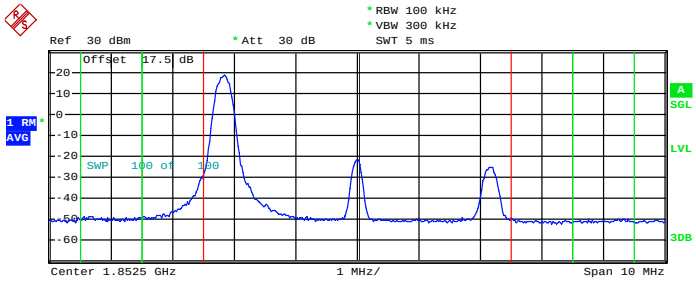
Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -24.98 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz Upper -27.39 dBm

Date: 21.JAN.2013 18:31:09

Band :	LTE Band 25	BW / Mod. :	5MHz / 16QAM

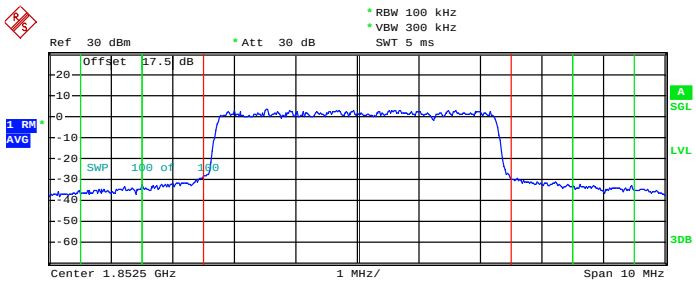
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Tx Channel			
Bandwidth	5 MHz		
Adjacent Channel			
Bandwidth	1 MHz	Lower	-30.51 dBm
Spacing	3 MHz		
Alternate Channel			
Bandwidth	1 MHz	Lower	-40.06 dBm
Spacing	4 MHz		

Date: 21.JAN.2013 17:43:55

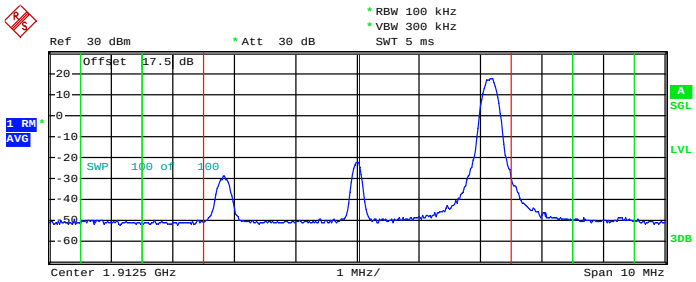
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Tx Channel			
Bandwidth	5 MHz		
Adjacent Channel			
Bandwidth	1 MHz	Lower	-22.57 dBm
Spacing	3 MHz		
Alternate Channel			
Bandwidth	1 MHz	Lower	-25.60 dBm
Spacing	4 MHz		

Date: 21.JAN.2013 17:45:15

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



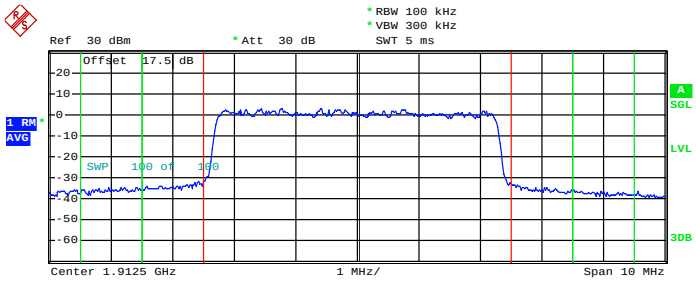
Tx Channel
Bandwidth 5 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -30.85 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz Upper -39.95 dBm

Date: 21.JAN.2013 18:32:04

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



Tx Channel
Bandwidth 5 MHz

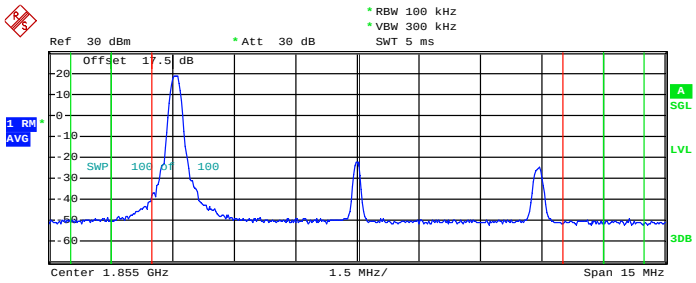
Adjacent Channel
Bandwidth 1 MHz
Spacing 3 MHz Upper -25.64 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 4 MHz Upper -27.64 dBm

Date: 21.JAN.2013 18:30:49

Band :	LTE Band 25	BW / Mod. :	10MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



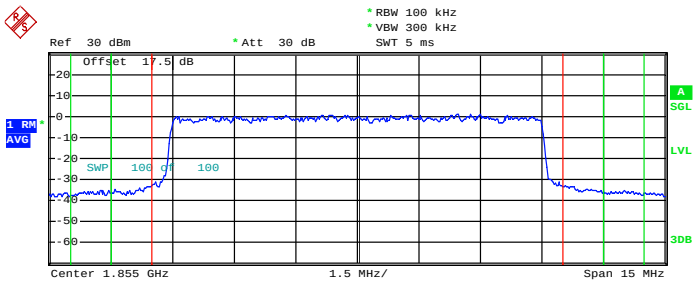
Tx Channel
Bandwidth 10 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz
Lower -36.20 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz
Lower -40.45 dBm

Date: 21.JAN.2013 18:41:22

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



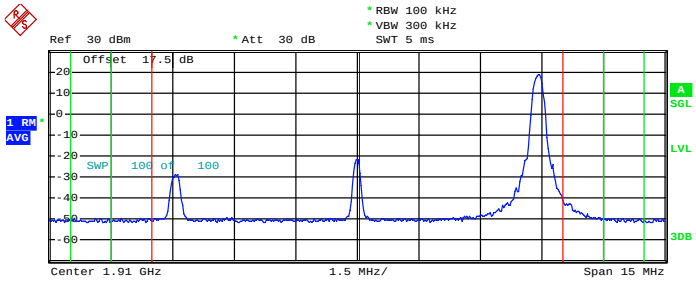
Tx Channel
Bandwidth 10 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz
Lower -25.63 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz
Lower -26.77 dBm

Date: 21.JAN.2013 18:40:02

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



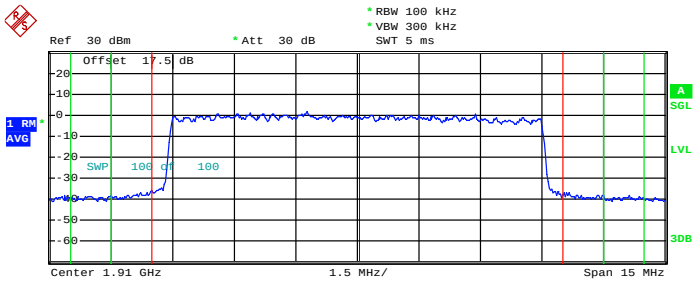
Tx Channel
Bandwidth 10 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz Upper -36.22 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz Upper -40.61 dBm

Date: 21.JAN.2013 18:34:12

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



Tx Channel
Bandwidth 10 MHz

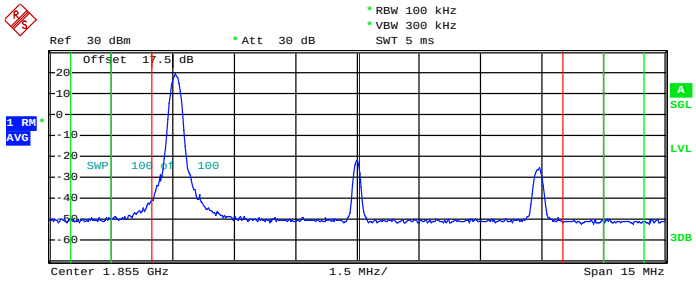
Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz Upper -28.94 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz Upper -29.89 dBm

Date: 21.JAN.2013 18:35:28

Band :	LTE Band 25	BW / Mod. :	10MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



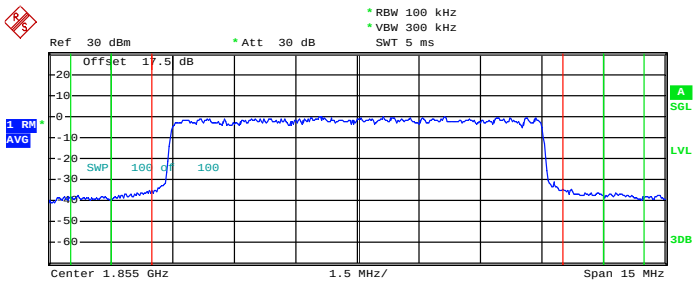
Tx Channel
Bandwidth 10 MHz

Adjacent Channel Lower -37.08 dBm
Bandwidth 1 MHz
Spacing 5.5 MHz

Alternate Channel Lower -40.62 dBm
Bandwidth 1 MHz
Spacing 6.5 MHz

Date: 21.JAN.2013 18:41:01

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



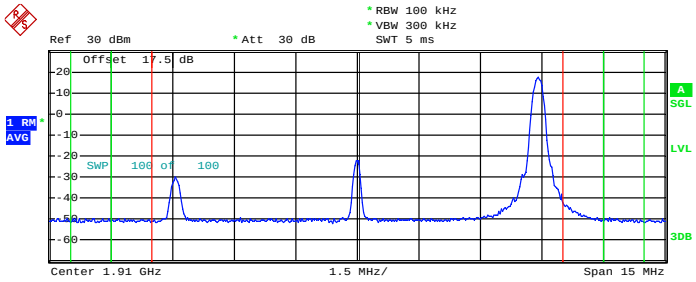
Tx Channel
Bandwidth 10 MHz

Adjacent Channel Lower -27.64 dBm
Bandwidth 1 MHz
Spacing 5.5 MHz

Alternate Channel Lower -28.99 dBm
Bandwidth 1 MHz
Spacing 6.5 MHz

Date: 21.JAN.2013 18:40:33

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



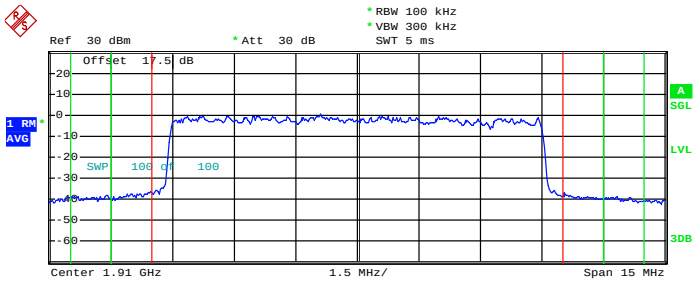
Tx Channel
Bandwidth 10 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz Upper -37.20 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz Upper -40.73 dBm

Date: 21.JAN.2013 18:34:38

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



Tx Channel
Bandwidth 10 MHz

Adjacent Channel
Bandwidth 1 MHz
Spacing 5.5 MHz Upper -29.18 dBm

Alternate Channel
Bandwidth 1 MHz
Spacing 6.5 MHz Upper -30.21 dBm

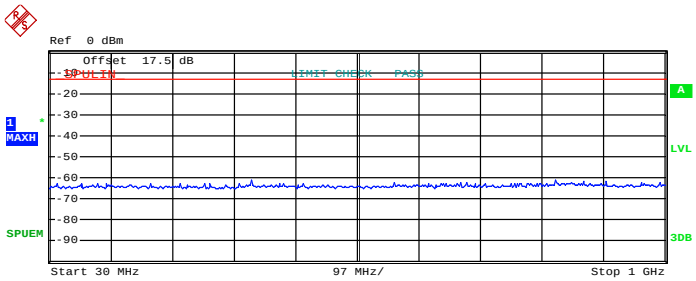
Date: 21.JAN.2013 18:35:08

3.4.6 Test Plots of Spurious Emission

Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
Frequency :	1710.7	Channel :	19957

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

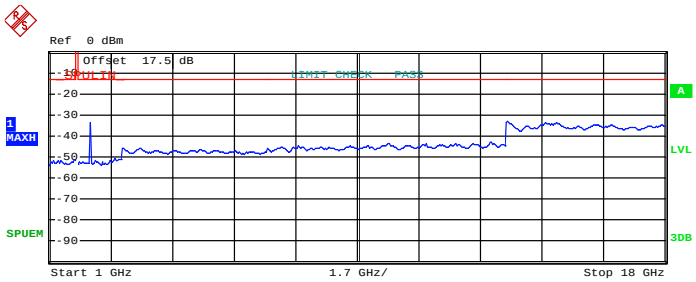


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	827.340000 M	-61.10	-48.10

Date: 20.JAN.2013 20:42:23

Conducted Emission Plot (1GHz ~ 18GHz) for

QPSK (RB Size 1, RB Offset 0)



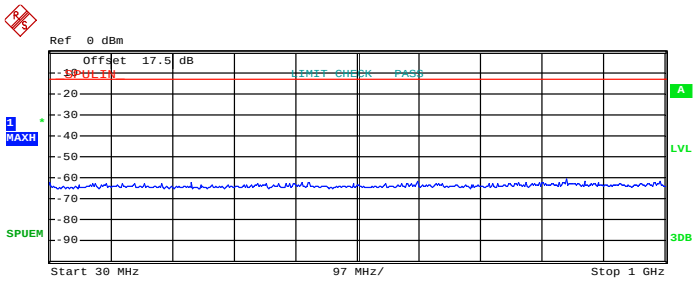
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.677409 G	-51.41	-38.41
1.768 G	3.000 G	1.00 M	2.110496 G	-33.89	-20.89
3.000 G	7.000 G	1.00 M	3.032000 G	-45.77	-32.77
7.000 G	13.600 G	1.00 M	13.164400 G	-43.25	-30.25
13.600 G	18.000 G	1.00 M	13.635200 G	-33.18	-20.18

Date: 24.JAN.2013 17:36:03

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)

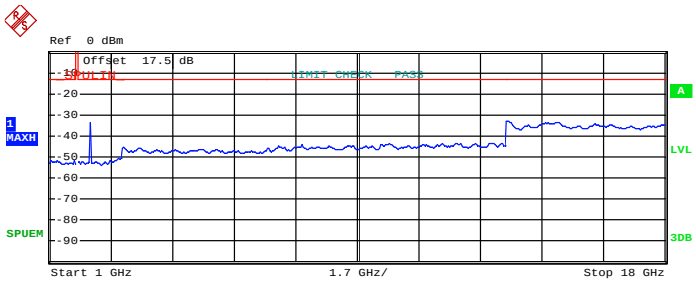


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	844.800000 M	-60.74	-47.74

Date: 20.JAN.2013 20:37:21

Conducted Emission Plot (1GHz ~ 18GHz) for

QPSK (RB Size 1, RB Offset 0)



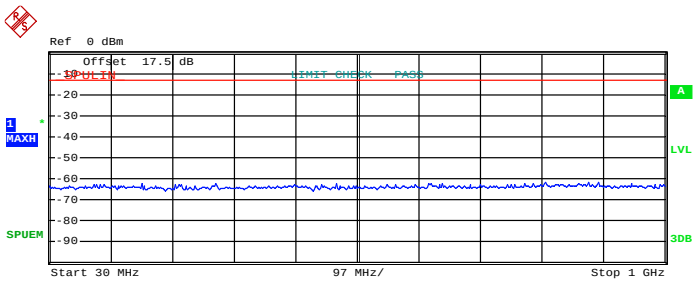
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.028269 G	-51.74	-38.74
1.768 G	3.000 G	1.00 M	2.132672 G	-33.80	-20.80
3.000 G	7.000 G	1.00 M	3.028000 G	-45.16	-32.16
7.000 G	13.600 G	1.00 M	12.220600 G	-43.51	-30.51
13.600 G	18.000 G	1.00 M	13.626400 G	-32.83	-19.83

Date: 24.JAN.2013 17:31:41

Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
Frequency :	1754.3	Channel :	20393

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

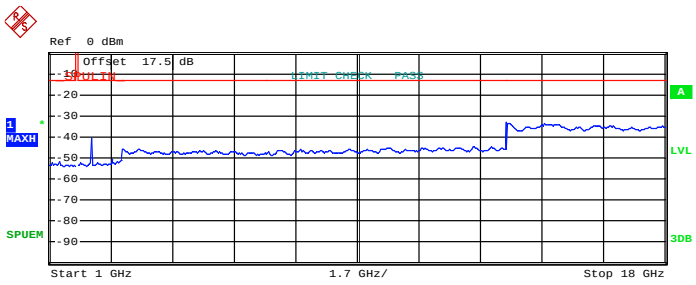


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	879.235000 M	-61.73	-48.73

Date: 20.JAN.2013 20:44:06

Conducted Emission Plot (1GHz ~ 18GHz) for

QPSK (RB Size 1, RB Offset 0)



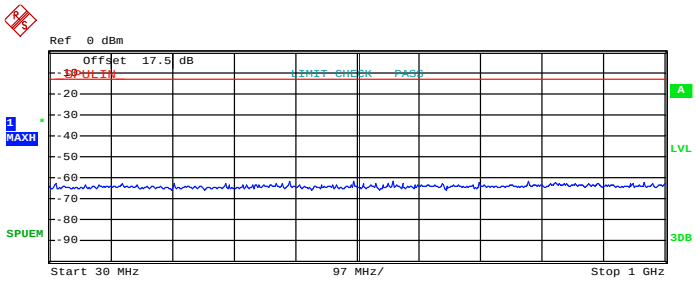
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.280395 G	-51.84	-38.84
1.768 G	3.000 G	1.00 M	2.153889 G	-40.36	-27.36
3.000 G	7.000 G	1.00 M	3.044000 G	-45.97	-32.97
7.000 G	13.600 G	1.00 M	12.732100 G	-44.92	-31.92
13.600 G	18.000 G	1.00 M	13.624200 G	-32.97	-19.97

Date: 20.JAN.2013 20:45:57

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)

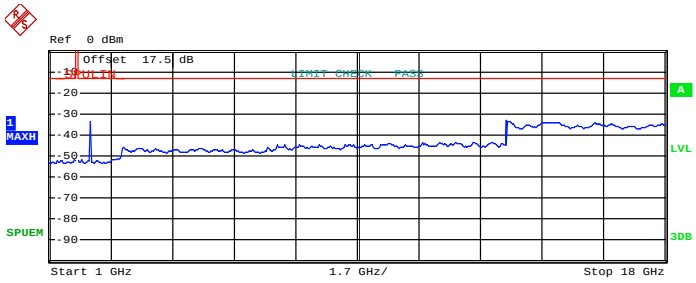


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	783.690000 M	-61.56	-48.56

Date: 20.JAN.2013 20:41:56

Conducted Emission Plot (1GHz ~ 18GHz) for

16-QAM (RB Size 1, RB Offset 0)



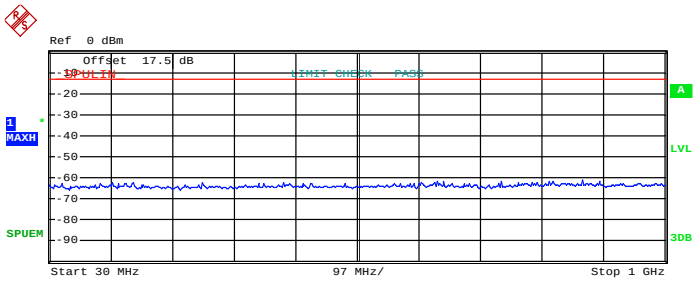
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.692765 G	-51.64	-38.64
1.768 G	3.000 G	1.00 M	2.110496 G	-33.44	-20.44
3.000 G	7.000 G	1.00 M	3.032000 G	-45.86	-32.86
7.000 G	13.600 G	1.00 M	13.227100 G	-43.38	-30.38
13.600 G	18.000 G	1.00 M	13.626400 G	-32.91	-19.91

Date: 24.JAN.2013 17:35:11

Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

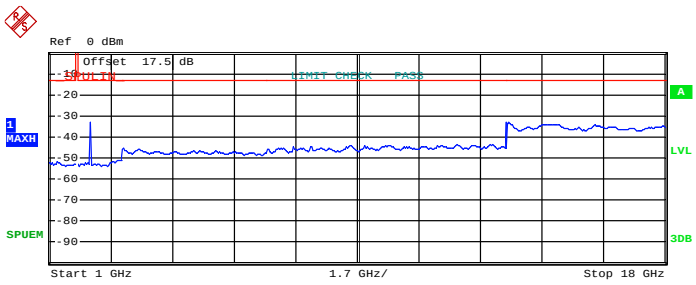


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	869.535000 M	-61.28	-48.28

Date: 20.JAN.2013 20:38:04

Conducted Emission Plot (1GHz ~ 18GHz) for

16-QAM (RB Size 1, RB Offset 0)



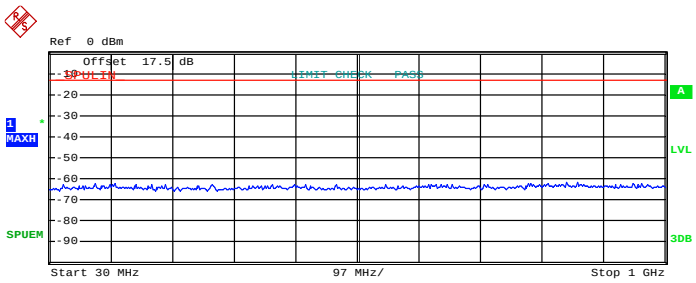
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.205561 G	-51.96	-38.96
1.768 G	3.000 G	1.00 M	2.132672 G	-32.81	-19.81
3.000 G	7.000 G	1.00 M	3.038000 G	-45.23	-32.23
7.000 G	13.600 G	1.00 M	12.260200 G	-43.52	-30.52
13.600 G	18.000 G	1.00 M	13.613200 G	-33.20	-20.20

Date: 24.JAN.2013 17:32:20

Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1754.3	Channel :	20393

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

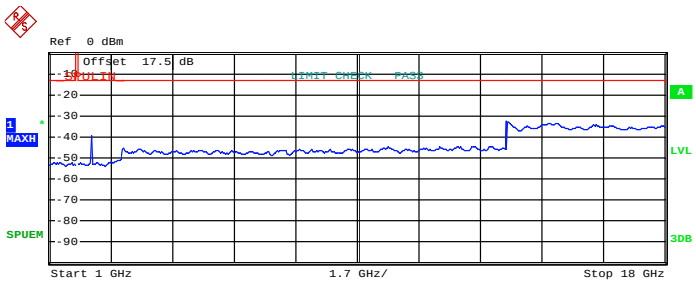


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	862.745000 M	-61.50	-48.50

Date: 20.JAN.2013 20:44:35

Conducted Emission Plot (1GHz ~ 18GHz) for

16-QAM (RB Size 1, RB Offset 0)



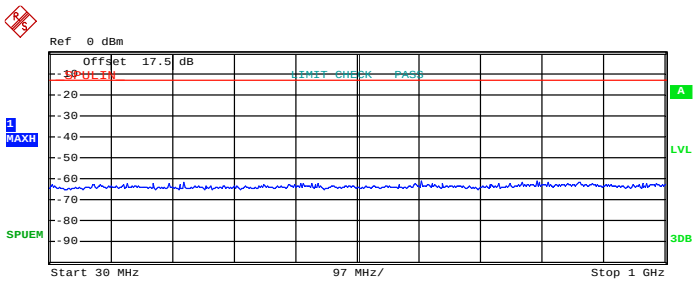
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.199485 G	-52.20	-39.20
1.768 G	3.000 G	1.00 M	2.153889 G	-39.28	-26.28
3.000 G	7.000 G	1.00 M	3.030000 G	-45.44	-32.44
7.000 G	13.600 G	1.00 M	12.722200 G	-44.51	-31.51
13.600 G	18.000 G	1.00 M	13.626400 G	-32.49	-19.49

Date: 20.JAN.2013 20:45:31

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)

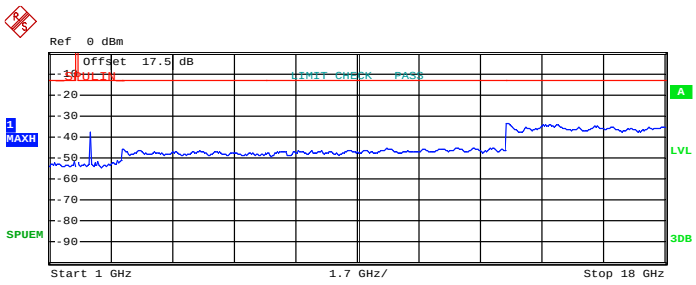


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	615.395000 M	-61.31	-48.31

Date: 21.JAN.2013 10:12:06

Conducted Emission Plot (1GHz ~ 18GHz) for

QPSK (RB Size 1, RB Offset 0)



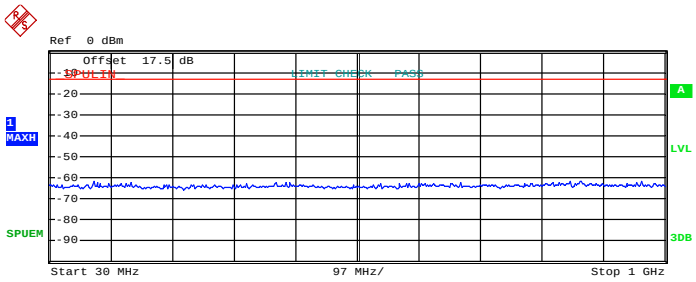
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.694012 G	-51.85	-38.85
1.768 G	3.000 G	1.00 M	2.111984 G	-37.87	-24.87
3.000 G	7.000 G	1.00 M	3.004000 G	-45.99	-32.99
7.000 G	13.600 G	1.00 M	12.220600 G	-45.15	-32.15
13.600 G	18.000 G	1.00 M	13.628600 G	-33.40	-20.40

Date: 21.JAN.2013 10:10:33

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)

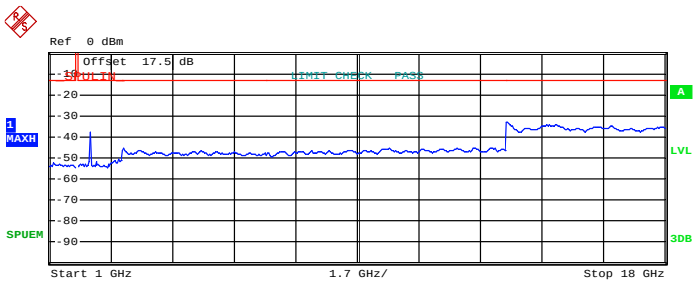


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	962.655000 M	-61.70	-48.70

Date: 21.JAN.2013 10:07:10

Conducted Emission Plot (1GHz ~ 18GHz) for

QPSK (RB Size 1, RB Offset 0)



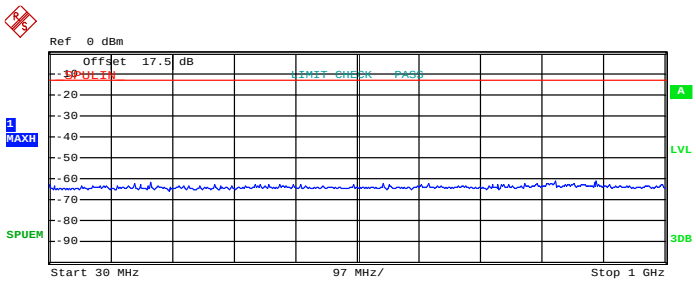
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.092070 G	-52.34	-39.34
1.768 G	3.000 G	1.00 M	2.132320 G	-37.80	-24.80
3.000 G	7.000 G	1.00 M	3.028000 G	-45.52	-32.52
7.000 G	13.600 G	1.00 M	12.253600 G	-45.16	-32.16
13.600 G	18.000 G	1.00 M	13.626400 G	-33.29	-20.29

Date: 21.JAN.2013 10:08:58

Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
Frequency :	1753.5	Channel :	20385

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

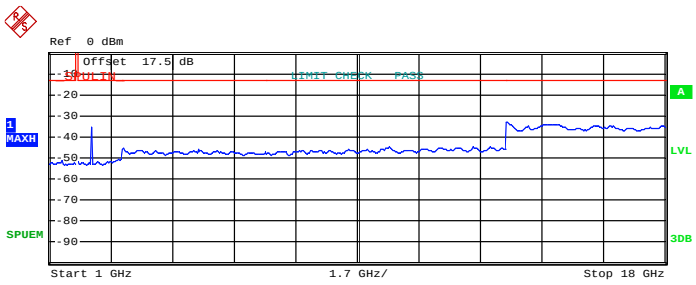


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	890.390000 M	-60.83	-47.83

Date: 21.JAN.2013 10:12:45

Conducted Emission Plot (1GHz ~ 18GHz) for

QPSK (RB Size 1, RB Offset 0)



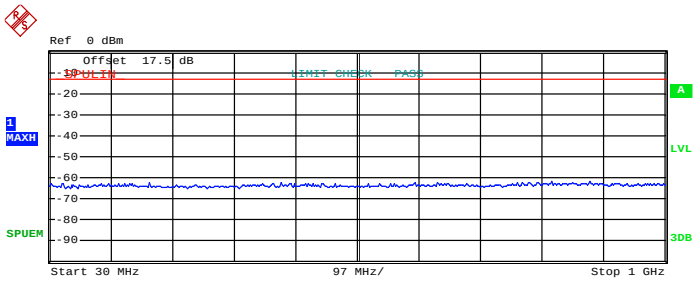
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.337590 G	-51.05	-38.05
1.768 G	3.000 G	1.00 M	2.153272 G	-35.55	-22.55
3.000 G	7.000 G	1.00 M	3.026000 G	-45.55	-32.55
7.000 G	13.600 G	1.00 M	12.702400 G	-44.64	-31.64
13.600 G	18.000 G	1.00 M	13.613200 G	-33.03	-20.03

Date: 21.JAN.2013 10:15:52

Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
Frequency :	1711.5	Channel :	19965

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

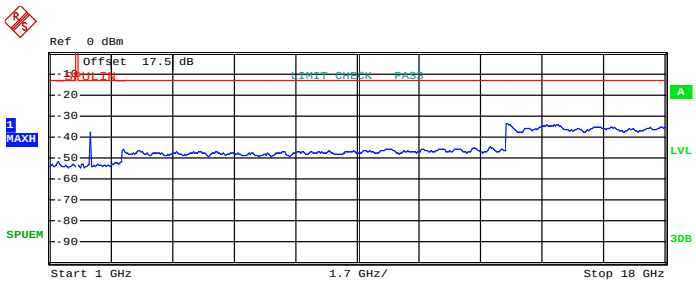


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	880.690000 M	-61.76	-48.76

Date: 21.JAN.2013 10:11:36

Conducted Emission Plot (1GHz ~ 18GHz) for

16-QAM (RB Size 1, RB Offset 0)



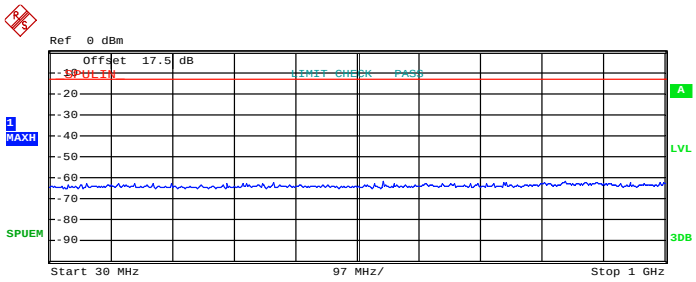
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.246566 G	-51.53	-38.53
1.768 G	3.000 G	1.00 M	2.112600 G	-37.74	-24.74
3.000 G	7.000 G	1.00 M	3.034000 G	-45.94	-32.94
7.000 G	13.600 G	1.00 M	13.157800 G	-44.92	-31.92
13.600 G	18.000 G	1.00 M	13.613200 G	-33.77	-20.77

Date: 21.JAN.2013 10:10:53

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)

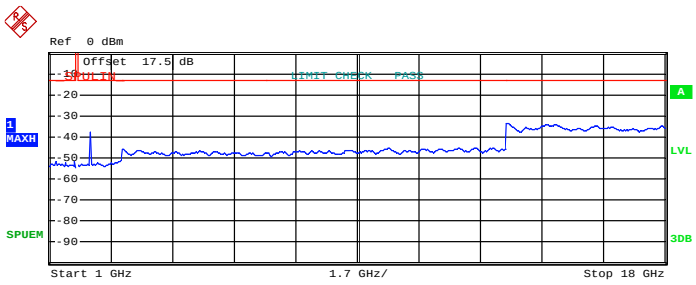


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	554.770000 M	-61.41	-48.41

Date: 21.JAN.2013 10:07:38

Conducted Emission Plot (1GHz ~ 18GHz) for

16-QAM (RB Size 1, RB Offset 0)



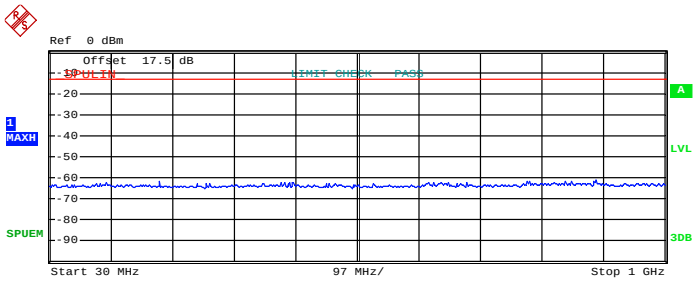
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.695408 G	-51.89	-38.89
1.768 G	3.000 G	1.00 M	2.131704 G	-37.91	-24.91
3.000 G	7.000 G	1.00 M	3.036000 G	-45.93	-32.93
7.000 G	13.600 G	1.00 M	12.801400 G	-45.10	-32.10
13.600 G	18.000 G	1.00 M	13.633000 G	-33.43	-20.43

Date: 21.JAN.2013 10:08:24

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)

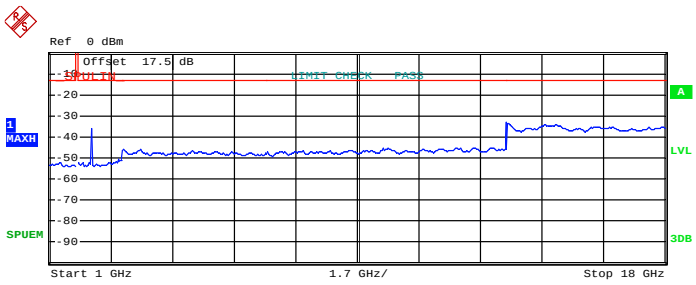


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	890.390000 M	-61.16	-48.16

Date: 21.JAN.2013 10:13:17

Conducted Emission Plot (1GHz ~ 18GHz) for

16-QAM (RB Size 1, RB Offset 0)



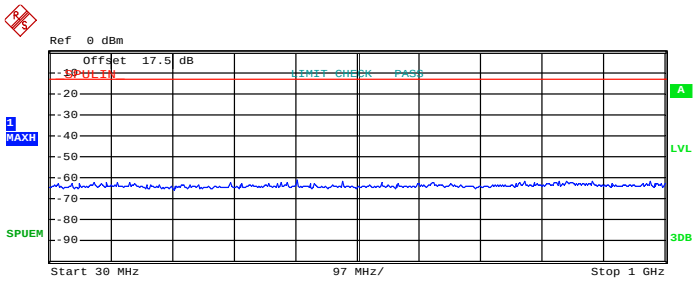
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.282836 G	-52.41	-39.41
1.768 G	3.000 G	1.00 M	2.153272 G	-35.96	-22.96
3.000 G	7.000 G	1.00 M	3.036000 G	-45.91	-32.91
7.000 G	13.600 G	1.00 M	10.352800 G	-45.25	-32.25
13.600 G	18.000 G	1.00 M	13.617600 G	-33.29	-20.29

Date: 21.JAN.2013 10:13:52

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)

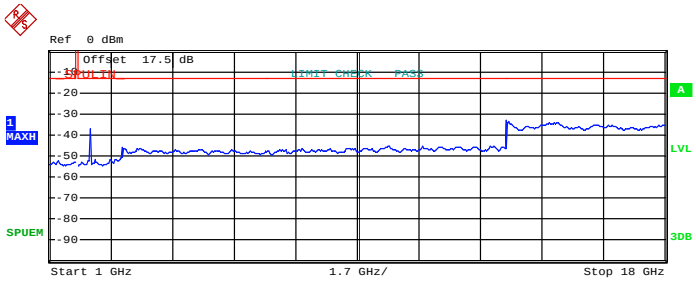


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	419.455000 M	-61.38	-48.38

Date: 21.JAN.2013 10:20:31

Conducted Emission Plot (1GHz ~ 18GHz) for

QPSK (RB Size 1, RB Offset 0)



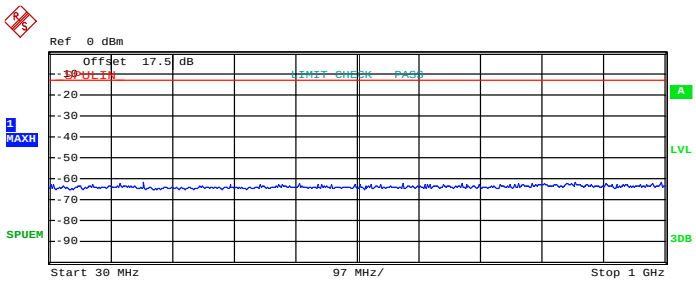
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.230873 G	-52.59	-39.59
1.768 G	3.000 G	1.00 M	2.113833 G	-37.33	-24.33
3.000 G	7.000 G	1.00 M	3.020000 G	-45.93	-32.93
7.000 G	13.600 G	1.00 M	13.260100 G	-45.31	-32.31
13.600 G	18.000 G	1.00 M	13.613200 G	-33.03	-20.03

Date: 21.JAN.2013 10:21:56

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)

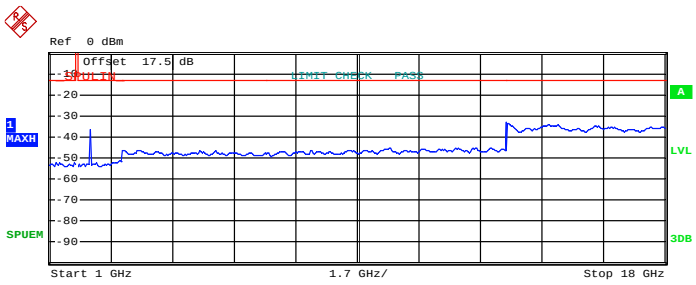


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	993.695000 M	-61.48	-48.48

Date: 21.JAN.2013 10:19:49

Conducted Emission Plot (1GHz ~ 18GHz) for

QPSK (RB Size 1, RB Offset 0)



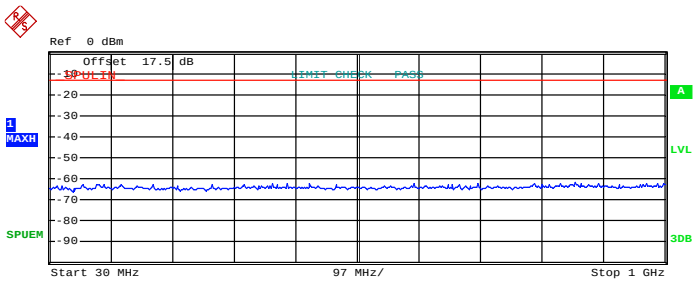
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.268886 G	-52.24	-39.24
1.768 G	3.000 G	1.00 M	2.134169 G	-36.79	-23.79
3.000 G	7.000 G	1.00 M	3.036000 G	-46.27	-33.27
7.000 G	13.600 G	1.00 M	12.758500 G	-45.23	-32.23
13.600 G	18.000 G	1.00 M	13.624200 G	-33.29	-20.29

Date: 21.JAN.2013 10:17:41

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)

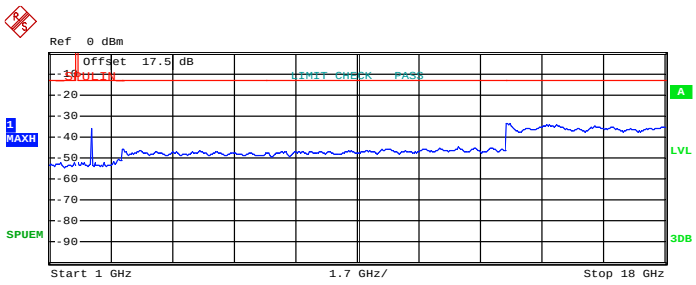


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	857.410000 M	-61.84	-48.84

Date: 21.JAN.2013 10:24:03

Conducted Emission Plot (1GHz ~ 18GHz) for

QPSK (RB Size 1, RB Offset 0)



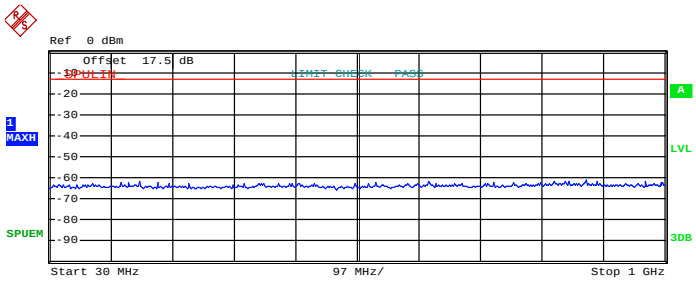
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.313526 G	-52.36	-39.36
1.768 G	3.000 G	1.00 M	2.152040 G	-36.09	-23.09
3.000 G	7.000 G	1.00 M	3.000000 G	-46.08	-33.08
7.000 G	13.600 G	1.00 M	12.299800 G	-45.01	-32.01
13.600 G	18.000 G	1.00 M	13.701200 G	-33.45	-20.45

Date: 21.JAN.2013 10:22:46

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)

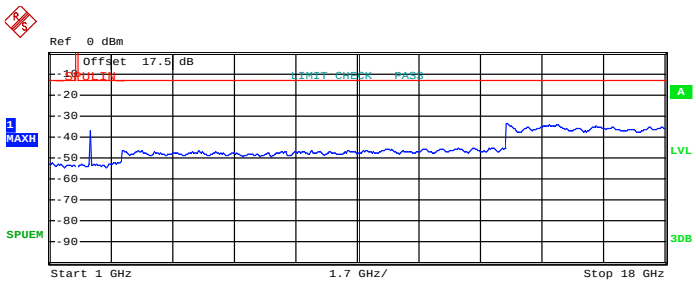


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	876.325000 M	-61.07	-48.07

Date: 21.JAN.2013 10:20:57

Conducted Emission Plot (1GHz ~ 18GHz) for

16-QAM (RB Size 1, RB Offset 0)



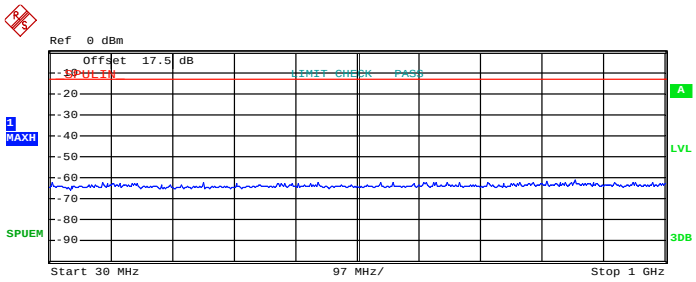
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.069401 G	-52.58	-39.58
1.768 G	3.000 G	1.00 M	2.114449 G	-37.24	-24.24
3.000 G	7.000 G	1.00 M	3.462000 G	-46.29	-33.29
7.000 G	13.600 G	1.00 M	13.507600 G	-45.30	-32.30
13.600 G	18.000 G	1.00 M	13.646200 G	-33.38	-20.38

Date: 21.JAN.2013 10:21:30

Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

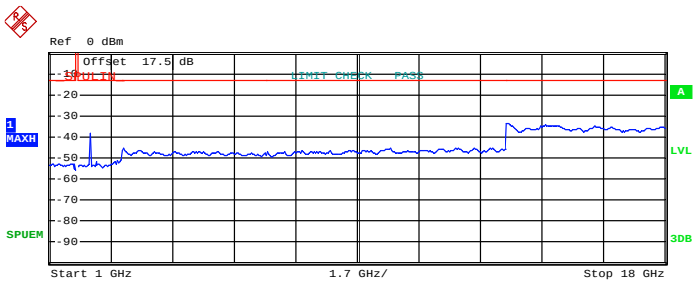


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	857.895000 M	-61.19	-48.19

Date: 21.JAN.2013 10:19:16

Conducted Emission Plot (1GHz ~ 18GHz) for

16-QAM (RB Size 1, RB Offset 0)



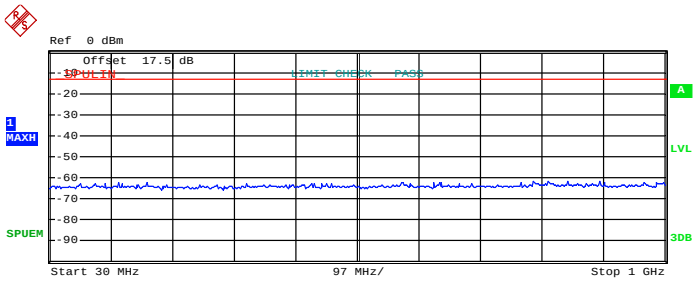
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.244125 G	-52.64	-39.64
1.768 G	3.000 G	1.00 M	2.132320 G	-38.30	-25.30
3.000 G	7.000 G	1.00 M	3.036000 G	-45.57	-32.57
7.000 G	13.600 G	1.00 M	13.240300 G	-45.27	-32.27
13.600 G	18.000 G	1.00 M	13.626400 G	-33.44	-20.44

Date: 21.JAN.2013 10:18:25

Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
Frequency :	1752.5	Channel :	20375

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

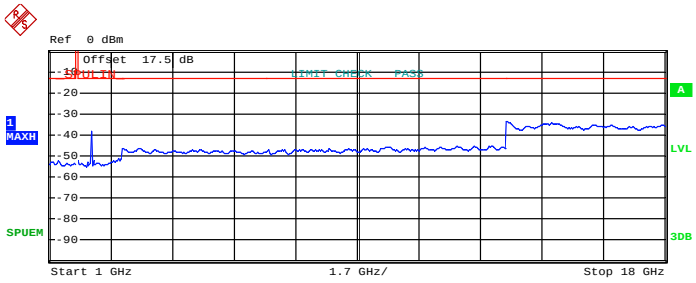


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	815.215000 M	-61.76	-48.76

Date: 21.JAN.2013 10:23:43

Conducted Emission Plot (1GHz ~ 18GHz) for

16-QAM (RB Size 1, RB Offset 0)



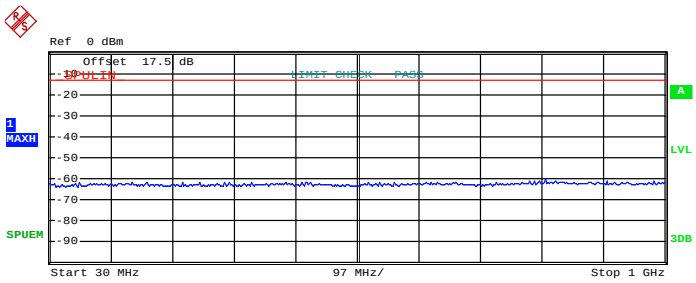
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.249008 G	-52.21	-39.21
1.768 G	3.000 G	1.00 M	2.153889 G	-38.16	-25.16
3.000 G	7.000 G	1.00 M	3.464000 G	-46.51	-33.51
7.000 G	13.600 G	1.00 M	12.715600 G	-45.21	-32.21
13.600 G	18.000 G	1.00 M	13.613200 G	-33.69	-20.69

Date: 21.JAN.2013 10:23:15

Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
Frequency :	1715	Channel :	20000

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

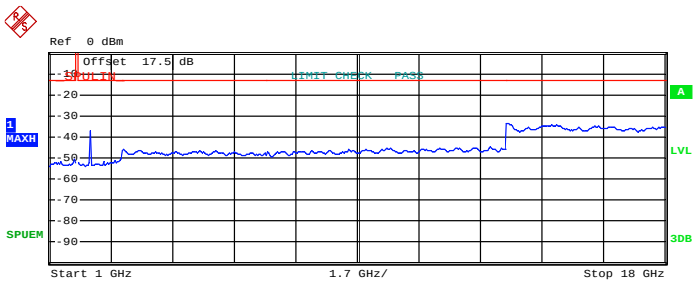


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	811.335000 M	-60.03	-47.03

Date: 21.JAN.2013 10:33:59

Conducted Emission Plot (1GHz ~ 18GHz) for

QPSK (RB Size 1, RB Offset 0)



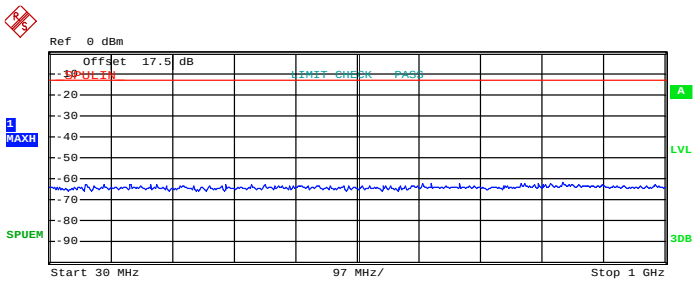
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.693664 G	-50.50	-37.50
1.768 G	3.000 G	1.00 M	2.113216 G	-37.22	-24.22
3.000 G	7.000 G	1.00 M	3.046000 G	-45.96	-32.96
7.000 G	13.600 G	1.00 M	13.167700 G	-44.92	-31.92
13.600 G	18.000 G	1.00 M	13.626400 G	-33.35	-20.35

Date: 21.JAN.2013 10:28:09

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)

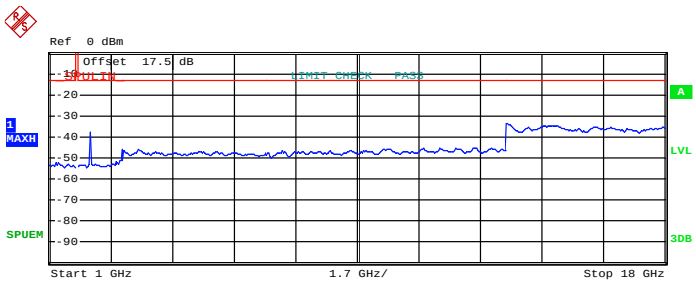


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	838.010000 M	-61.78	-48.78

Date: 21.JAN.2013 10:25:17

Conducted Emission Plot (1GHz ~ 18GHz) for

QPSK (RB Size 1, RB Offset 0)



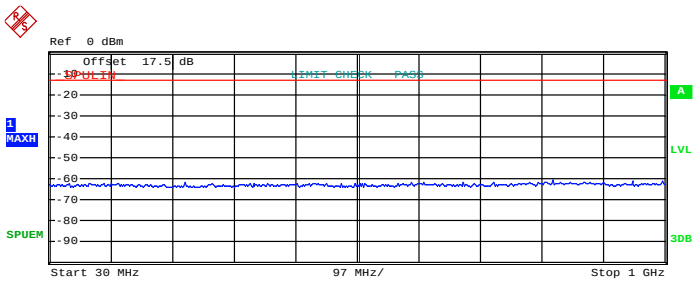
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.155542 G	-52.25	-39.25
1.768 G	3.000 G	1.00 M	2.135401 G	-37.88	-24.88
3.000 G	7.000 G	1.00 M	3.456000 G	-45.89	-32.89
7.000 G	13.600 G	1.00 M	12.702400 G	-45.29	-32.29
13.600 G	18.000 G	1.00 M	13.611000 G	-33.56	-20.56

Date: 21.JAN.2013 10:26:36

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)

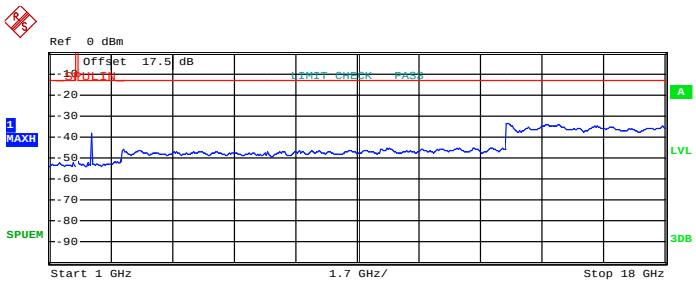


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	822.490000 M	-60.73	-47.73

Date: 21.JAN.2013 10:38:15

Conducted Emission Plot (1GHz ~ 18GHz) for

QPSK (RB Size 1, RB Offset 0)



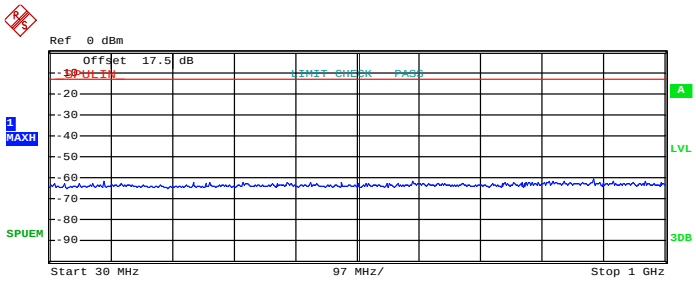
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.276210 G	-52.27	-39.27
1.768 G	3.000 G	1.00 M	2.149575 G	-38.21	-25.21
3.000 G	7.000 G	1.00 M	3.038000 G	-45.92	-32.92
7.000 G	13.600 G	1.00 M	10.306600 G	-45.32	-32.32
13.600 G	18.000 G	1.00 M	13.606600 G	-33.53	-20.53

Date: 21.JAN.2013 10:39:26

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)

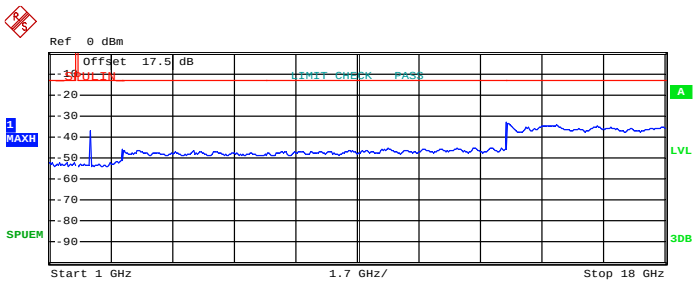


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	886.995000 M	-60.79	-47.79

Date: 21.JAN.2013 10:34:38

Conducted Emission Plot (1GHz ~ 18GHz) for

16-QAM (RB Size 1, RB Offset 0)



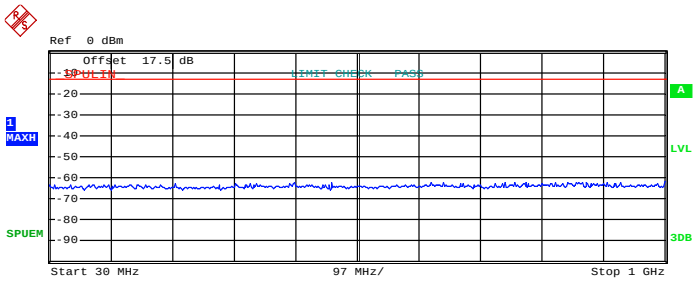
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.693664 G	-52.31	-39.31
1.768 G	3.000 G	1.00 M	2.116914 G	-37.24	-24.24
3.000 G	7.000 G	1.00 M	3.020000 G	-46.19	-33.19
7.000 G	13.600 G	1.00 M	13.243600 G	-45.23	-32.23
13.600 G	18.000 G	1.00 M	13.617600 G	-33.25	-20.25

Date: 21.JAN.2013 10:28:37

Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

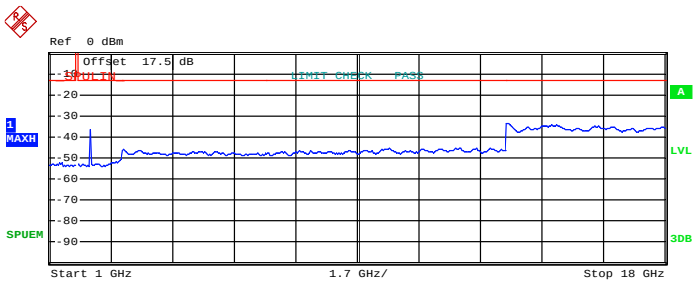


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	999.030000 M	-61.58	-48.58

Date: 21.JAN.2013 10:25:38

Conducted Emission Plot (1GHz ~ 18GHz) for

16-QAM (RB Size 1, RB Offset 0)



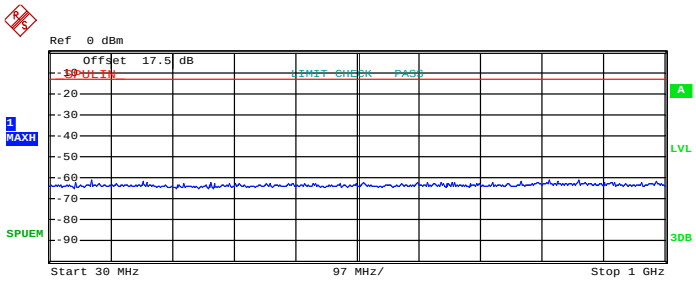
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.339683 G	-52.36	-39.36
1.768 G	3.000 G	1.00 M	2.131704 G	-36.79	-23.79
3.000 G	7.000 G	1.00 M	3.038000 G	-46.04	-33.04
7.000 G	13.600 G	1.00 M	12.204100 G	-45.12	-32.12
13.600 G	18.000 G	1.00 M	13.602200 G	-33.53	-20.53

Date: 21.JAN.2013 10:26:14

Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
Frequency :	1750	Channel :	20350

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

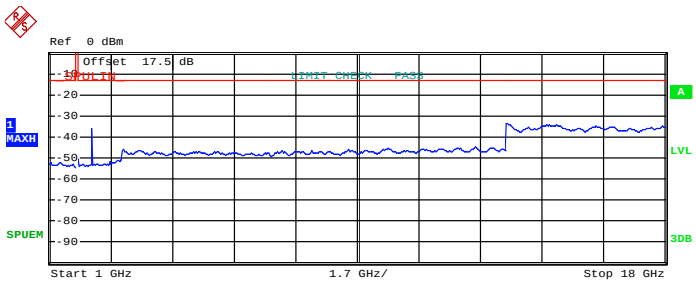


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	863.230000 M	-61.09	-48.09

Date: 21.JAN.2013 10:36:04

Conducted Emission Plot (1GHz ~ 18GHz) for

16-QAM (RB Size 1, RB Offset 0)



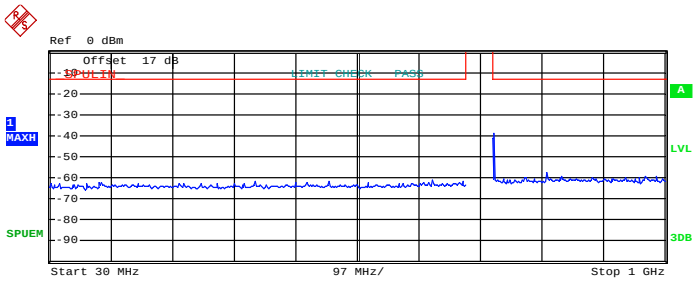
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.698 G	1.00 M	1.047081 G	-52.21	-39.21
1.768 G	3.000 G	1.00 M	2.150191 G	-35.93	-22.93
3.000 G	7.000 G	1.00 M	3.034000 G	-45.87	-32.87
7.000 G	13.600 G	1.00 M	12.765100 G	-44.96	-31.96
13.600 G	18.000 G	1.00 M	13.637400 G	-33.38	-20.38

Date: 21.JAN.2013 10:40:08

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 5)

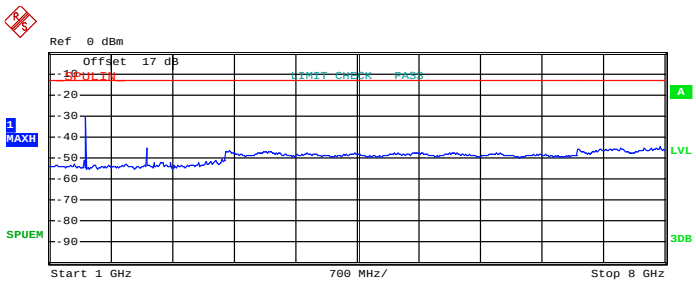


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	633.980000 M	-61.27	-48.27
728.500 M	1.000 G	100.00 k	729.314500 M	-39.18	-26.18

Date: 21.JAN.2013 14:01:22

Conducted Emission Plot (1GHz ~ 8GHz) for

QPSK (RB Size 1, RB Offset 5)



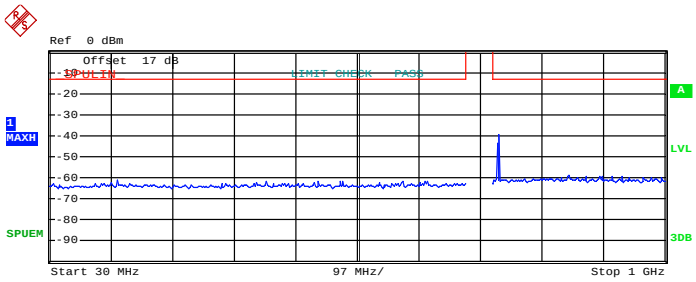
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.400000 G	-30.58	-17.58
3.000 G	7.000 G	1.00 M	3.036000 G	-46.68	-33.68
7.000 G	8.000 G	1.00 M	7.947000 G	-44.88	-31.88

Date: 21.JAN.2013 14:00:44

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 2)

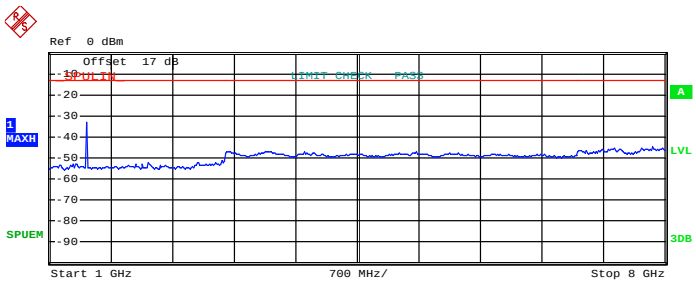


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	136.024750 M	-61.18	-48.18
728.500 M	1.000 G	100.00 k	737.188000 M	-39.33	-26.33

Date: 21.JAN.2013 13:49:18

Conducted Emission Plot (1GHz ~ 8GHz) for

QPSK (RB Size 1, RB Offset 2)



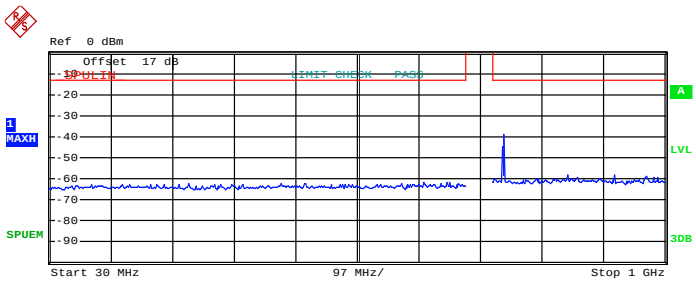
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.415000 G	-33.05	-20.05
3.000 G	7.000 G	1.00 M	3.036000 G	-46.96	-33.96
7.000 G	8.000 G	1.00 M	7.859500 G	-44.81	-31.81

Date: 21.JAN.2013 13:51:31

Band :	LTE Band 12	BW / Mod. :	1.4MHz / QPSK
Frequency :	715.3	Channel :	23173

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 3, RB Offset 1)

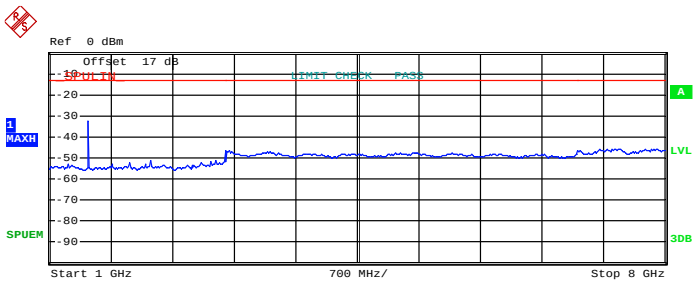


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	659.911750 M	-61.48	-48.48
728.500 M	1.000 G	100.00 k	744.790000 M	-38.91	-25.91

Date: 21.JAN.2013 13:55:26

Conducted Emission Plot (1GHz ~ 8GHz) for

QPSK (RB Size 3, RB Offset 1)



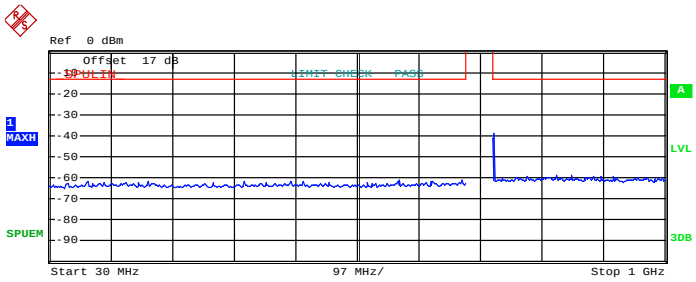
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.430000 G	-32.36	-19.36
3.000 G	7.000 G	1.00 M	3.000000 G	-46.63	-33.63
7.000 G	8.000 G	1.00 M	7.431000 G	-45.84	-32.84

Date: 21.JAN.2013 13:54:58

Band :	LTE Band 12	BW / Mod. :	1.4MHz / 16QAM
Frequency :	699.7	Channel :	23017

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 5)

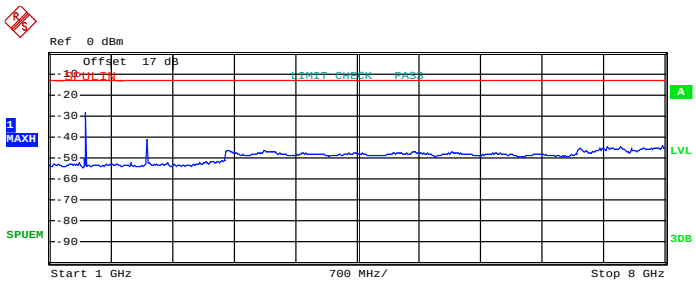


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	581.460000 M	-61.24	-48.24
728.500 M	1.000 G	100.00 k	729.314500 M	-38.99	-25.99

Date: 21.JAN.2013 14:02:10

Conducted Emission Plot (1GHz ~ 8GHz) for

16-QAM (RB Size 1, RB Offset 5)



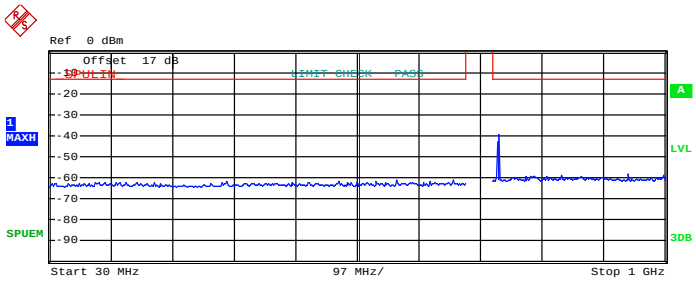
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.400000 G	-28.63	-15.63
3.000 G	7.000 G	1.00 M	3.454000 G	-46.50	-33.50
7.000 G	8.000 G	1.00 M	7.971000 G	-44.23	-31.23

Date: 21.JAN.2013 13:59:59

Band :	LTE Band 12	BW / Mod. :	1.4MHz / 16QAM
Frequency :	707.5	Channel :	23095

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 2)

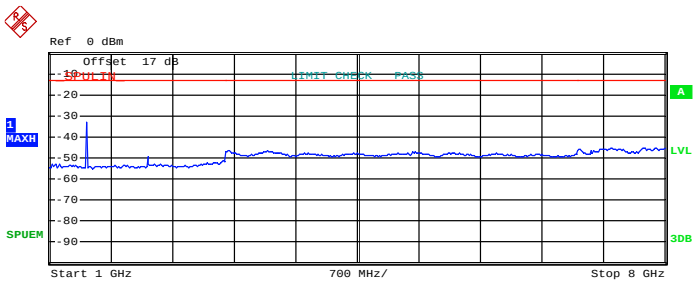


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	576.864500 M	-61.09	-48.09
728.500 M	1.000 G	100.00 k	737.866750 M	-39.19	-26.19

Date: 21.JAN.2013 13:50:11

Conducted Emission Plot (1GHz ~ 8GHz) for

16-QAM (RB Size 1, RB Offset 2)



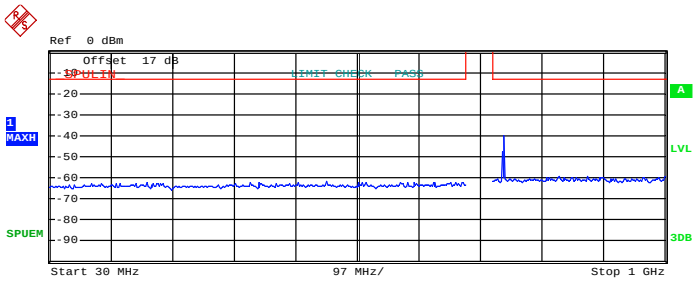
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.415000 G	-32.83	-19.83
3.000 G	7.000 G	1.00 M	3.036000 G	-46.63	-33.63
7.000 G	8.000 G	1.00 M	7.995500 G	-45.31	-32.31

Date: 21.JAN.2013 13:51:00

Band :	LTE Band 12	BW / Mod. :	1.4MHz / 16QAM
Frequency :	715.3	Channel :	23173

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 3, RB Offset 2)

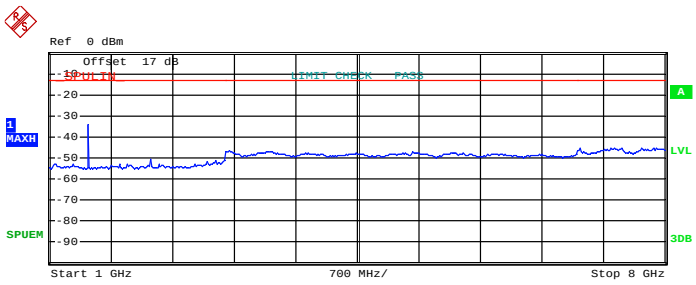


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	465.259500 M	-61.64	-48.64
728.500 M	1.000 G	100.00 k	744.925750 M	-40.11	-27.11

Date: 21.JAN.2013 13:56:04

Conducted Emission Plot (1GHz ~ 8GHz) for

16-QAM (RB Size 3, RB Offset 2)



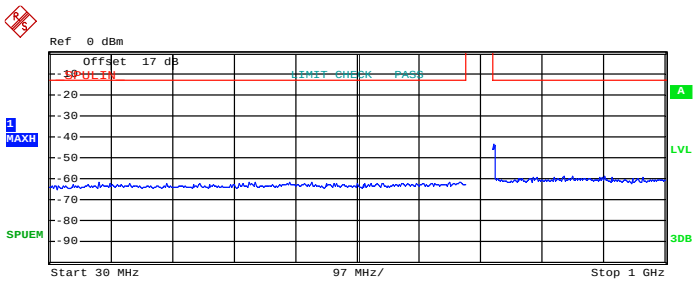
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.431000 G	-34.21	-21.21
3.000 G	7.000 G	1.00 M	3.038000 G	-46.68	-33.68
7.000 G	8.000 G	1.00 M	7.421500 G	-45.33	-32.33

Date: 21.JAN.2013 13:56:42

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 7)

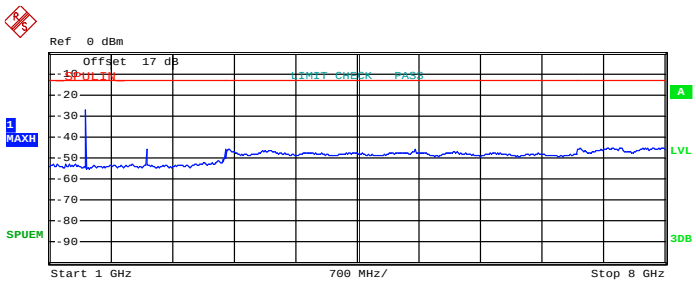


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	677.965500 M	-61.59	-48.59
728.500 M	1.000 G	100.00 k	729.586000 M	-43.46	-30.46

Date: 23.JAN.2013 10:32:15

Conducted Emission Plot (1GHz ~ 8GHz) for

QPSK (RB Size 1, RB Offset 7)



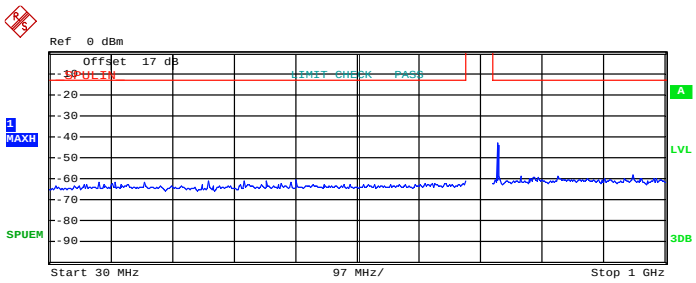
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.401000 G	-26.96	-13.96
3.000 G	7.000 G	1.00 M	3.048000 G	-46.04	-33.04
7.000 G	8.000 G	1.00 M	7.982500 G	-45.10	-32.10

Date: 23.JAN.2013 10:30:03

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 7)

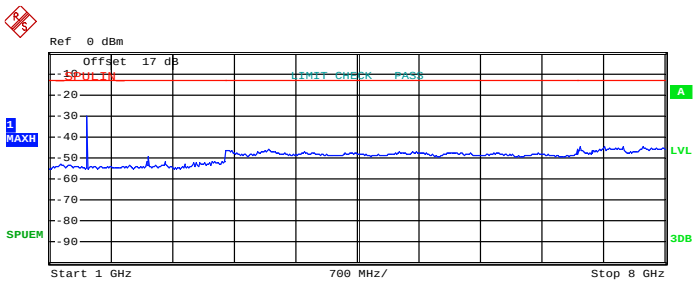


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	417.006750 M	-60.73	-47.73
728.500 M	1.000 G	100.00 k	736.780750 M	-42.78	-29.78

Date: 23.JAN.2013 10:26:56

Conducted Emission Plot (1GHz ~ 8GHz) for

QPSK (RB Size 1, RB Offset 7)



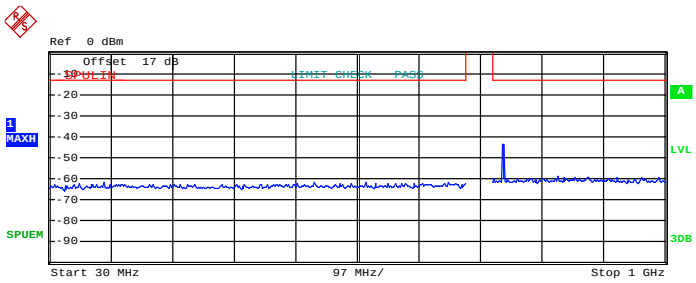
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.415000 G	-30.17	-17.17
3.000 G	7.000 G	1.00 M	3.496000 G	-46.14	-33.14
7.000 G	8.000 G	1.00 M	7.741500 G	-44.95	-31.95

Date: 23.JAN.2013 10:28:42

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 7)

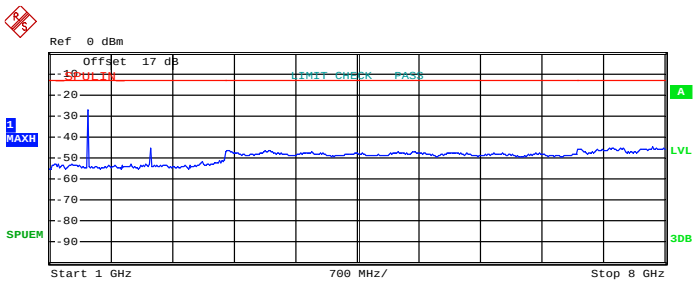


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	527.298750 M	-61.68	-48.68
728.500 M	1.000 G	100.00 k	744.790000 M	-43.47	-30.47

Date: 23.JAN.2013 10:33:28

Conducted Emission Plot (1GHz ~ 8GHz) for

QPSK (RB Size 1, RB Offset 7)



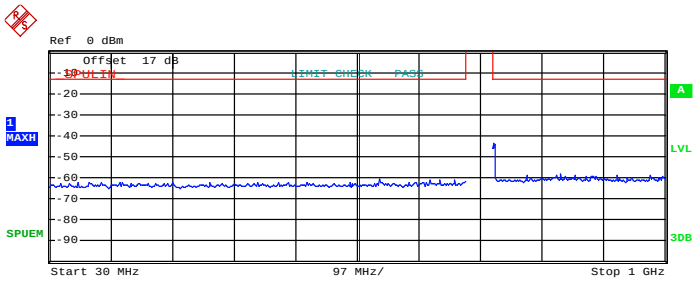
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.429000 G	-27.41	-14.41
3.000 G	7.000 G	1.00 M	3.028000 G	-46.23	-33.23
7.000 G	8.000 G	1.00 M	7.864000 G	-44.91	-31.91

Date: 23.JAN.2013 10:35:20

Band :	LTE Band 12	BW / Mod. :	3MHz / 16QAM
Frequency :	700.5	Channel :	23025

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 7)

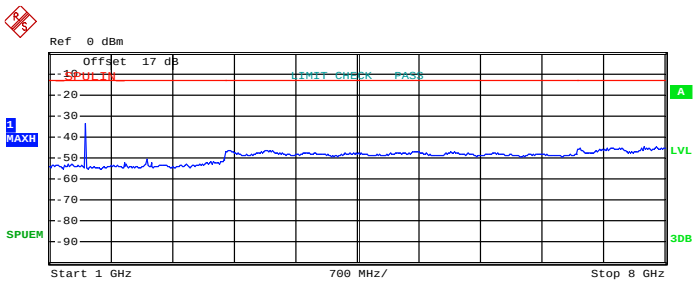


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	548.963250 M	-60.64	-47.64
728.500 M	1.000 G	100.00 k	730.129000 M	-43.64	-30.64

Date: 23.JAN.2013 10:31:31

Conducted Emission Plot (1GHz ~ 8GHz) for

16-QAM (RB Size 1, RB Offset 7)



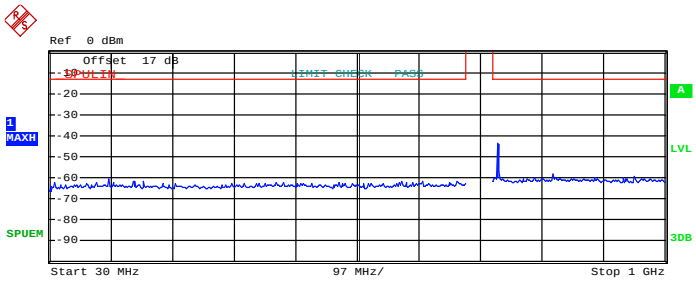
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.401000 G	-33.55	-20.55
3.000 G	7.000 G	1.00 M	3.032000 G	-46.22	-33.22
7.000 G	8.000 G	1.00 M	7.760000 G	-44.71	-31.71

Date: 23.JAN.2013 10:30:37

Band :	LTE Band 12	BW / Mod. :	3MHz / 16QAM
Frequency :	707.5	Channel :	23095

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 7)

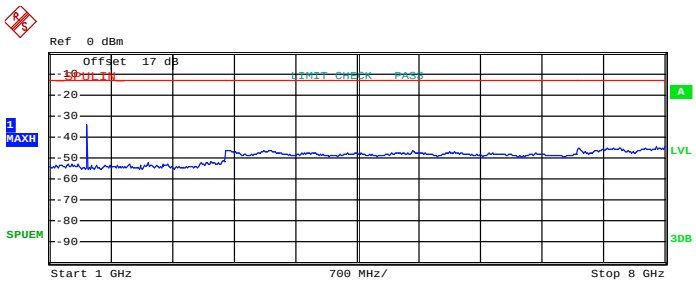


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	121.910000 M	-60.78	-47.78
728.500 M	1.000 G	100.00 k	736.780750 M	-43.38	-30.38

Date: 23.JAN.2013 10:27:29

Conducted Emission Plot (1GHz ~ 8GHz) for

16-QAM (RB Size 1, RB Offset 7)



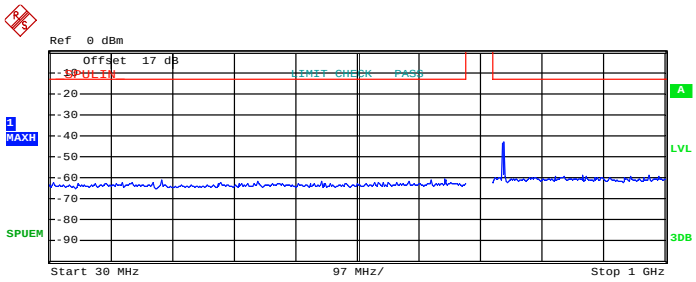
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.415000 G	-34.31	-21.31
3.000 G	7.000 G	1.00 M	3.030000 G	-46.20	-33.20
7.000 G	8.000 G	1.00 M	7.895500 G	-44.85	-31.85

Date: 23.JAN.2013 10:28:13

Band :	LTE Band 12	BW / Mod. :	3MHz / 16QAM
Frequency :	714.5	Channel :	23165

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 7)

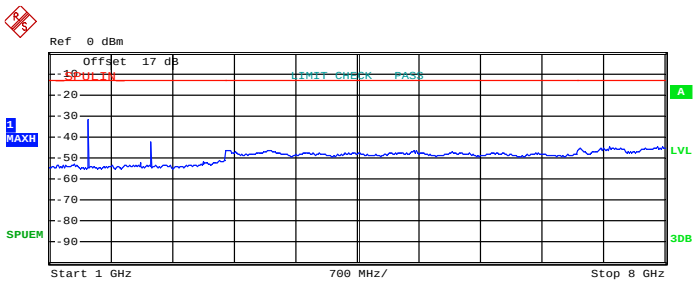


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	653.018500 M	-60.70	-47.70
728.500 M	1.000 G	100.00 k	745.740250 M	-43.12	-30.12

Date: 23.JAN.2013 10:34:07

Conducted Emission Plot (1GHz ~ 8GHz) for

16-QAM (RB Size 1, RB Offset 7)



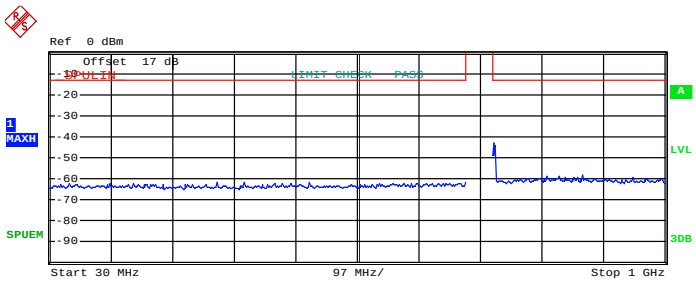
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.430000 G	-31.59	-18.59
3.000 G	7.000 G	1.00 M	3.478000 G	-46.24	-33.24
7.000 G	8.000 G	1.00 M	7.971500 G	-44.98	-31.98

Date: 23.JAN.2013 10:34:48

Band :	LTE Band 12	BW / Mod. :	5MHz / QPSK
Frequency :	701.5	Channel :	23035

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

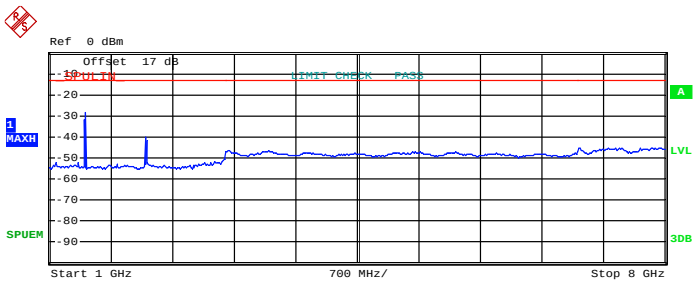


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	293.256500 M	-61.82	-48.82
728.500 M	1.000 G	100.00 k	731.079250 M	-42.96	-29.96

Date: 23.JAN.2013 10:56:41

Conducted Emission Plot (1GHz ~ 8GHz) for

QPSK (RB Size 1, RB Offset 0)



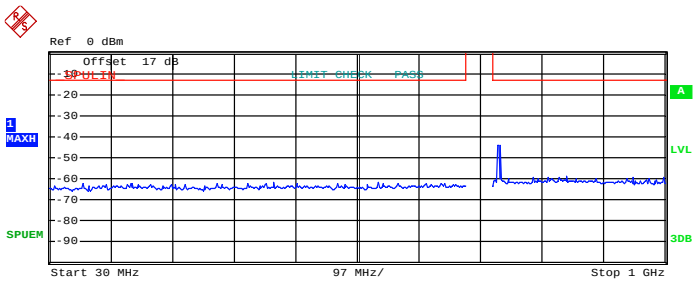
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.399000 G	-28.13	-15.13
3.000 G	7.000 G	1.00 M	3.036000 G	-46.29	-33.29
7.000 G	8.000 G	1.00 M	7.720000 G	-45.25	-32.25

Date: 23.JAN.2013 10:58:37

Band :	LTE Band 12	BW / Mod. :	5MHz / QPSK
Frequency :	707.5	Channel :	23095

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 24)

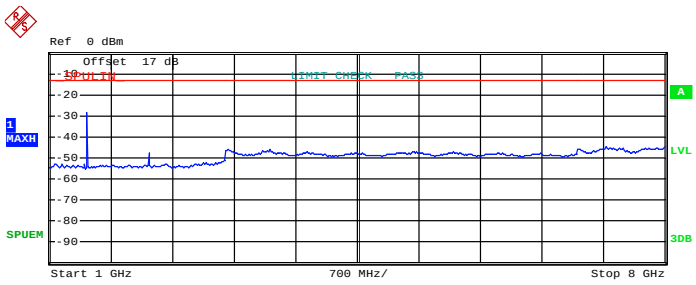


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	381.884000 M	-61.85	-48.85
728.500 M	1.000 G	100.00 k	737.595250 M	-44.00	-31.00

Date: 23.JAN.2013 10:55:06

Conducted Emission Plot (1GHz ~ 8GHz) for

QPSK (RB Size 1, RB Offset 24)



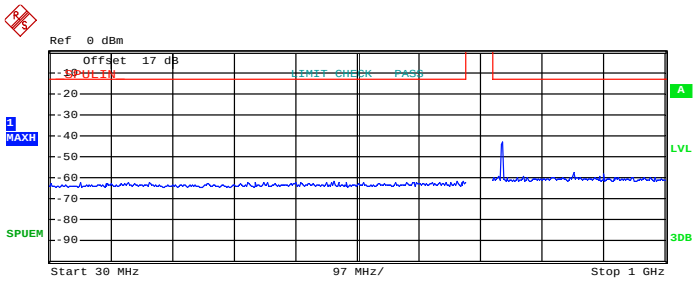
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.419000 G	-28.65	-15.65
3.000 G	7.000 G	1.00 M	3.024000 G	-46.13	-33.13
7.000 G	8.000 G	1.00 M	7.997000 G	-44.81	-31.81

Date: 23.JAN.2013 10:47:01

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 12)

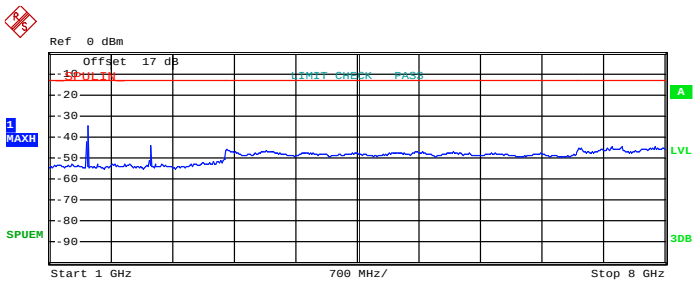


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	682.232750 M	-61.73	-48.73
728.500 M	1.000 G	100.00 k	743.704000 M	-43.22	-30.22

Date: 23.JAN.2013 10:42:31

Conducted Emission Plot (1GHz ~ 8GHz) for

QPSK (RB Size 1, RB Offset 12)



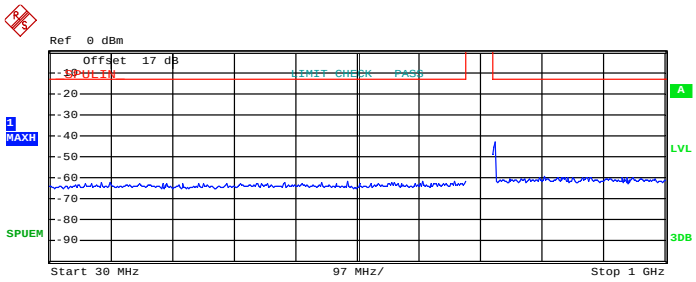
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.427000 G	-34.61	-21.61
3.000 G	7.000 G	1.00 M	3.014000 G	-46.04	-33.04
7.000 G	8.000 G	1.00 M	7.892000 G	-44.56	-31.56

Date: 23.JAN.2013 10:41:38

Band :	LTE Band 12	BW / Mod. :	5MHz / 16QAM
Frequency :	701.5	Channel :	23035

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

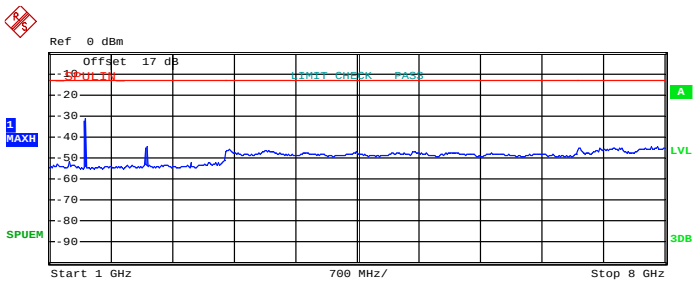


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	668.446250 M	-61.58	-48.58
728.500 M	1.000 G	100.00 k	732.979750 M	-43.19	-30.19

Date: 23.JAN.2013 10:57:26

Conducted Emission Plot (1GHz ~ 8GHz) for

16-QAM (RB Size 1, RB Offset 0)



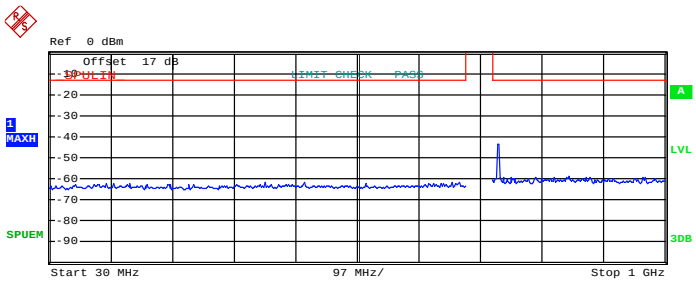
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.399000 G	-31.05	-18.05
3.000 G	7.000 G	1.00 M	3.038000 G	-46.12	-33.12
7.000 G	8.000 G	1.00 M	7.850500 G	-44.86	-31.86

Date: 23.JAN.2013 10:58:08

Band :	LTE Band 12	BW / Mod. :	5MHz / 16QAM
Frequency :	707.5	Channel :	23095

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 24)

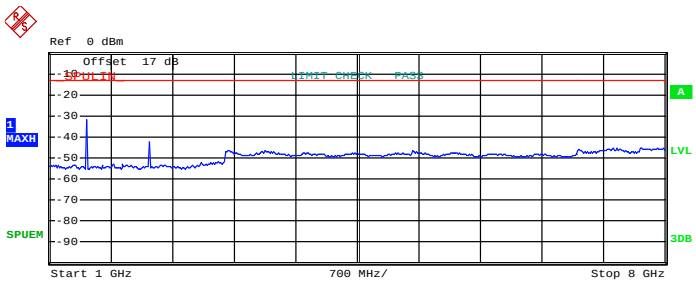


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	664.179000 M	-61.60	-48.60
728.500 M	1.000 G	100.00 k	735.966250 M	-43.59	-30.59

Date: 23.JAN.2013 10:48:51

Conducted Emission Plot (1GHz ~ 8GHz) for

16-QAM (RB Size 1, RB Offset 24)



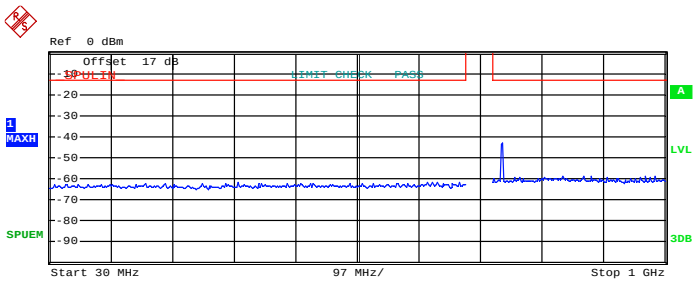
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.419000 G	-32.09	-19.09
3.000 G	7.000 G	1.00 M	3.038000 G	-46.45	-33.45
7.000 G	8.000 G	1.00 M	7.733500 G	-45.38	-32.38

Date: 23.JAN.2013 10:46:04

Band :	LTE Band 12	BW / Mod. :	5MHz / 16QAM
Frequency :	713.5	Channel :	23155

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 24)

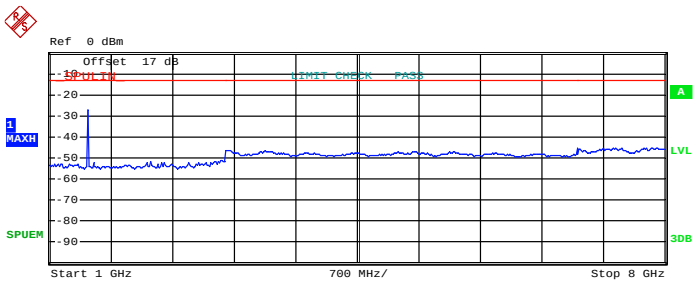


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	326.409750 M	-61.73	-48.73
728.500 M	1.000 G	100.00 k	744.382750 M	-43.13	-30.13

Date: 23.JAN.2013 10:43:36

Conducted Emission Plot (1GHz ~ 8GHz) for

16-QAM (RB Size 1, RB Offset 24)



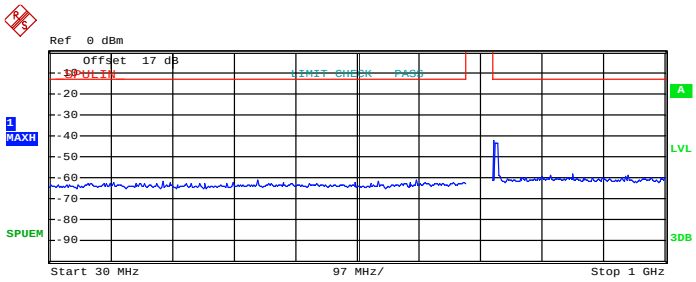
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.431000 G	-27.31	-14.31
3.000 G	7.000 G	1.00 M	3.040000 G	-46.27	-33.27
7.000 G	8.000 G	1.00 M	7.895000 G	-45.03	-32.03

Date: 23.JAN.2013 10:44:19

Band :	LTE Band 12	BW / Mod. :	10MHz / QPSK
Frequency :	704	Channel :	23060

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

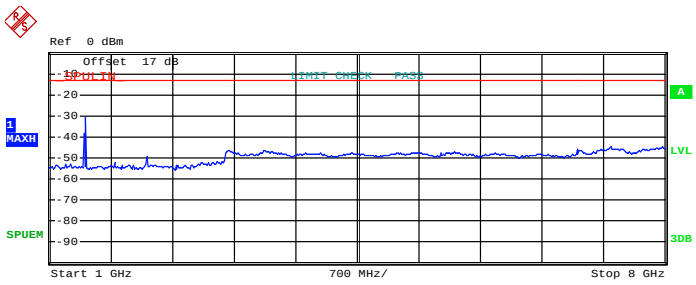


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	608.376500 M	-61.28	-48.28
728.500 M	1.000 G	100.00 k	730.400500 M	-42.59	-29.59

Date: 23.JAN.2013 11:05:05

Conducted Emission Plot (1GHz ~ 8GHz) for

QPSK (RB Size 1, RB Offset 0)



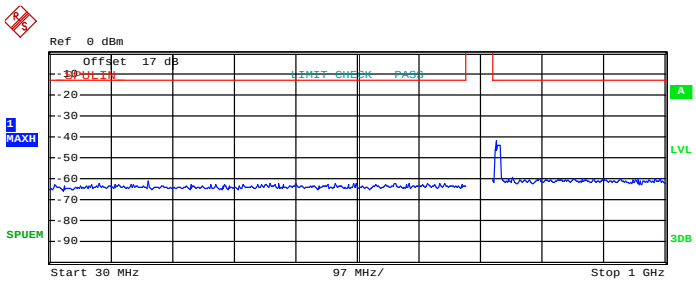
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.400000 G	-30.46	-17.46
3.000 G	7.000 G	1.00 M	3.032000 G	-46.45	-33.45
7.000 G	8.000 G	1.00 M	7.384500 G	-44.81	-31.81

Date: 23.JAN.2013 11:03:14

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 49)

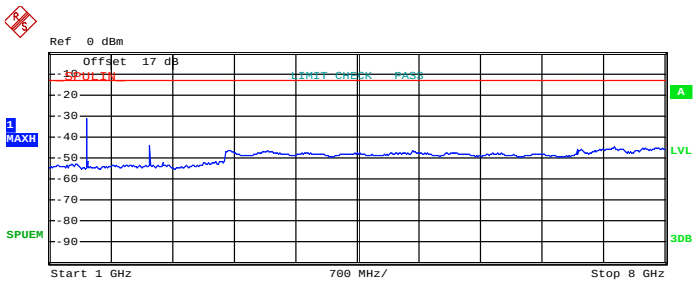


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	184.934000 M	-60.86	-47.86
728.500 M	1.000 G	100.00 k	733.387000 M	-41.69	-28.69

Date: 23.JAN.2013 11:06:49

Conducted Emission Plot (1GHz ~ 8GHz) for

QPSK (RB Size 1, RB Offset 49)



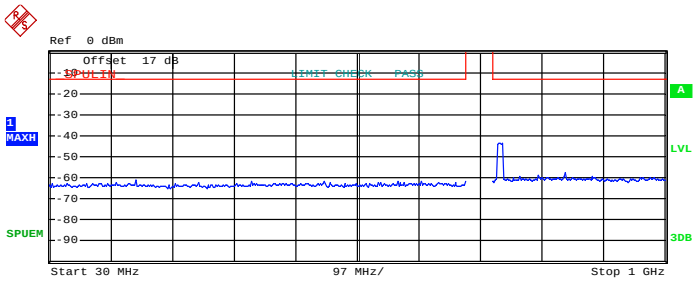
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.424000 G	-31.15	-18.15
3.000 G	7.000 G	1.00 M	3.040000 G	-46.26	-33.26
7.000 G	8.000 G	1.00 M	7.431500 G	-44.80	-31.80

Date: 23.JAN.2013 11:09:03

Band :	LTE Band 12	BW / Mod. :	10MHz / QPSK
Frequency :	711	Channel :	23130

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 49)

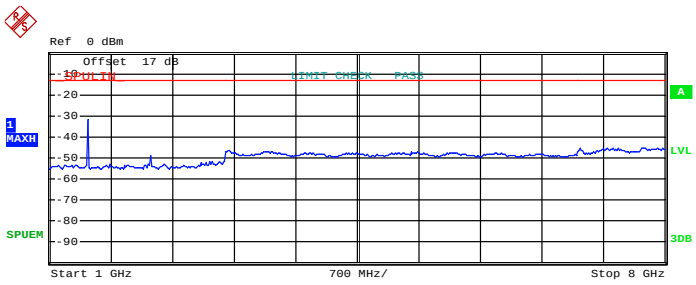


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	165.567250 M	-61.26	-48.26
728.500 M	1.000 G	100.00 k	740.581750 M	-43.31	-30.31

Date: 23.JAN.2013 11:12:42

Conducted Emission Plot (1GHz ~ 8GHz) for

QPSK (RB Size 1, RB Offset 49)



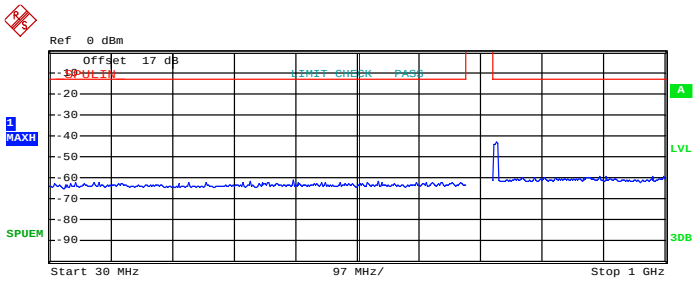
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.430000 G	-31.88	-18.88
3.000 G	7.000 G	1.00 M	3.044000 G	-46.29	-33.29
7.000 G	8.000 G	1.00 M	7.752500 G	-45.35	-32.35

Date: 23.JAN.2013 11:10:28

Band :	LTE Band 12	BW / Mod. :	10MHz / 16QAM
Frequency :	704	Channel :	23060

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

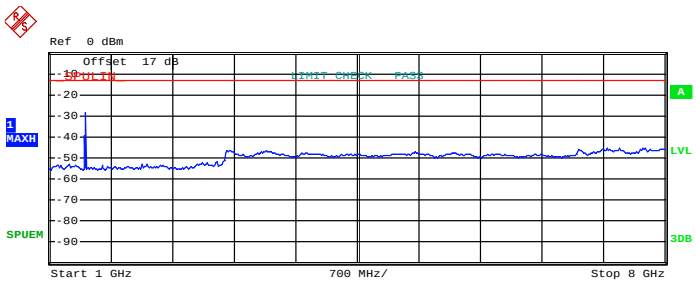


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	414.052500 M	-61.19	-48.19
728.500 M	1.000 G	100.00 k	735.016000 M	-43.13	-30.13

Date: 23.JAN.2013 11:04:32

Conducted Emission Plot (1GHz ~ 8GHz) for

16-QAM (RB Size 1, RB Offset 0)



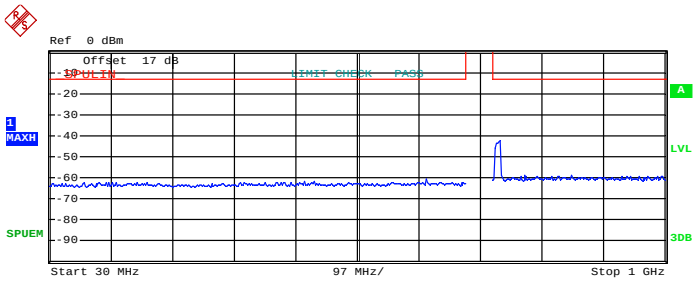
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.399000 G	-28.62	-15.62
3.000 G	7.000 G	1.00 M	3.058000 G	-46.53	-33.53
7.000 G	8.000 G	1.00 M	7.770000 G	-45.18	-32.18

Date: 23.JAN.2013 11:03:55

Band :	LTE Band 12	BW / Mod. :	10MHz / 16QAM
Frequency :	707.5	Channel :	23095

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 49)

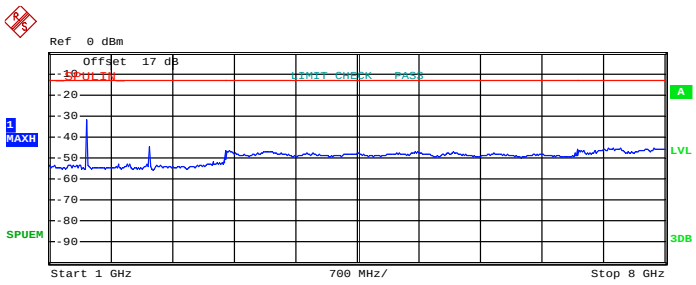


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	623.476000 M	-60.81	-47.81
728.500 M	1.000 G	100.00 k	739.631500 M	-42.12	-29.12

Date: 23.JAN.2013 11:07:43

Conducted Emission Plot (1GHz ~ 8GHz) for

16-QAM (RB Size 1, RB Offset 49)



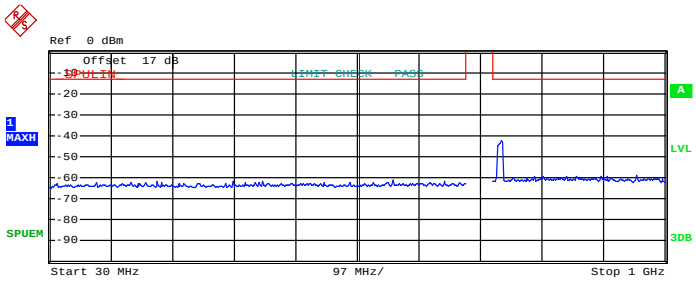
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.424000 G	-32.02	-19.02
3.000 G	7.000 G	1.00 M	3.040000 G	-46.52	-33.52
7.000 G	8.000 G	1.00 M	7.413000 G	-45.24	-32.24

Date: 23.JAN.2013 11:08:23

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 49)

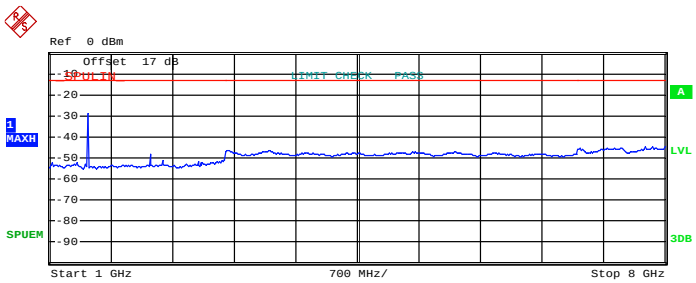


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	686.500 M	100.00 k	571.612500 M	-61.34	-48.34
728.500 M	1.000 G	100.00 k	741.803500 M	-42.61	-29.61

Date: 23.JAN.2013 11:12:02

Conducted Emission Plot (1GHz ~ 8GHz) for

16-QAM (RB Size 1, RB Offset 49)



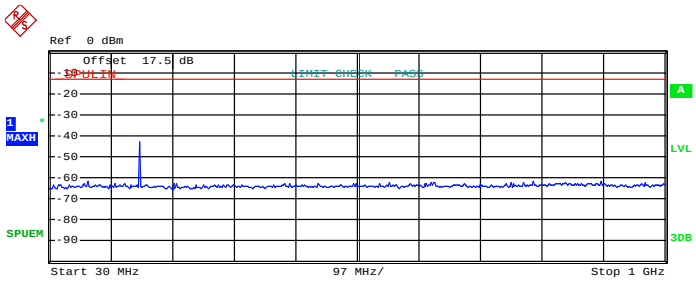
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	3.000 G	1.00 M	1.431000 G	-29.07	-16.07
3.000 G	7.000 G	1.00 M	3.038000 G	-46.31	-33.31
7.000 G	8.000 G	1.00 M	7.778000 G	-44.67	-31.67

Date: 23.JAN.2013 11:11:16

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

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 2)

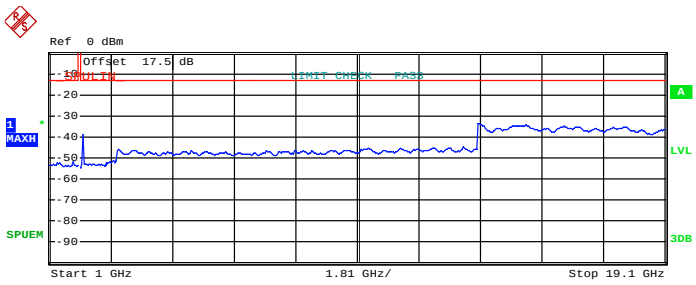


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	171.135000 M	-43.13	-30.13

Date: 25.JAN.2013 14:13:54

Conducted Emission Plot (1GHz ~ 19.1GHz) for

QPSK (RB Size 1, RB Offset 2)



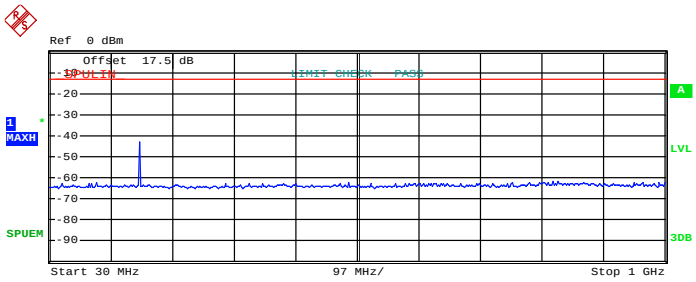
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.681725 G	-52.02	-39.02
1.923 G	3.000 G	1.00 M	1.988766 G	-39.13	-26.13
3.000 G	7.000 G	1.00 M	3.024000 G	-45.78	-32.78
7.000 G	13.600 G	1.00 M	13.154500 G	-44.86	-31.86
13.600 G	19.100 G	1.00 M	13.613750 G	-33.43	-20.43

Date: 25.JAN.2013 14:13:04

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

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 3, RB Offset 2)

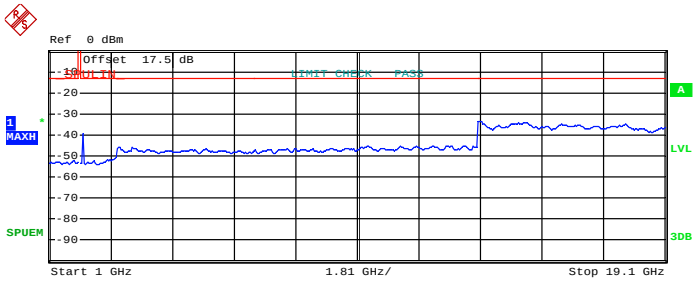


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	171.135000 M	-43.08	-30.08

Date: 25.JAN.2013 14:14:51

Conducted Emission Plot (1GHz ~ 19.1GHz) for

QPSK (RB Size 3, RB Offset 2)



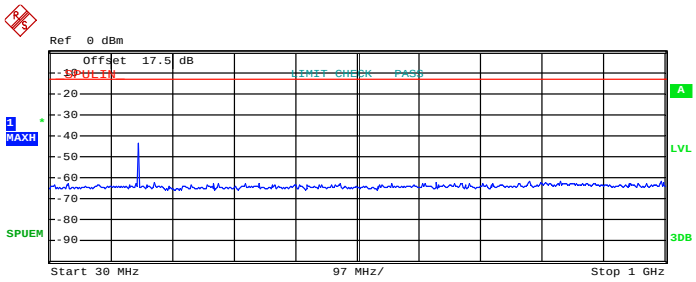
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.673350 G	-52.33	-39.33
1.923 G	3.000 G	1.00 M	1.988766 G	-39.19	-26.19
3.000 G	7.000 G	1.00 M	3.032000 G	-45.94	-32.94
7.000 G	13.600 G	1.00 M	12.728800 G	-45.05	-32.05
13.600 G	19.100 G	1.00 M	13.638500 G	-33.53	-20.53

Date: 25.JAN.2013 14:15:33

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)

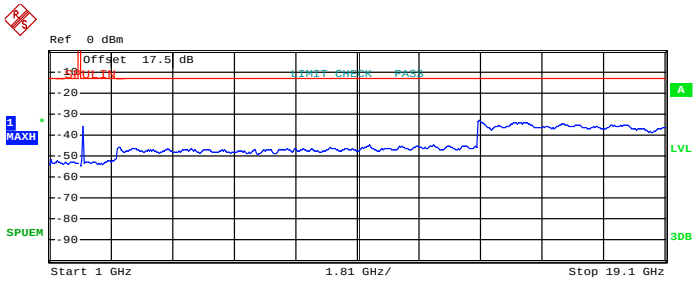


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	168.710000 M	-43.71	-30.71

Date: 25.JAN.2013 13:33:06

Conducted Emission Plot (1GHz ~ 19.1GHz) for

QPSK (RB Size 1, RB Offset 0)



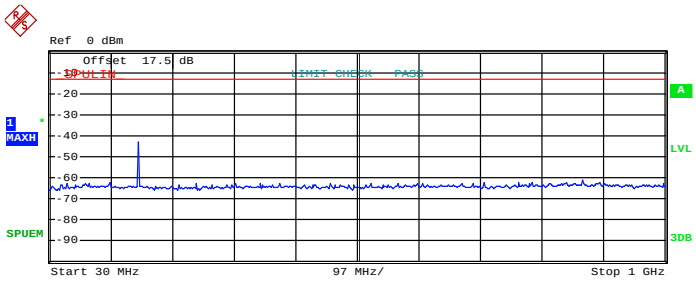
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.046481 G	-52.02	-39.02
1.923 G	3.000 G	1.00 M	1.988228 G	-36.19	-23.19
3.000 G	7.000 G	1.00 M	3.038000 G	-45.76	-32.76
7.000 G	13.600 G	1.00 M	10.395700 G	-44.89	-31.89
13.600 G	19.100 G	1.00 M	13.619250 G	-33.33	-20.33

Date: 25.JAN.2013 13:33:48

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

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 7)

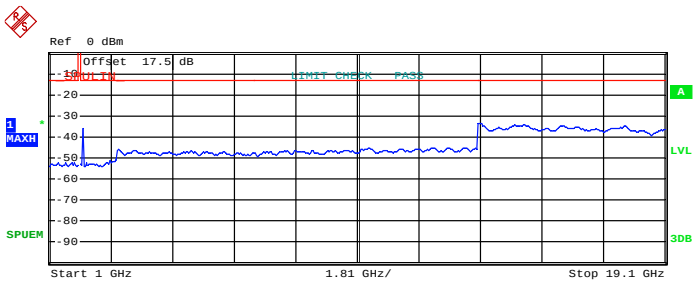


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	170.165000 M	-43.08	-30.08

Date: 25.JAN.2013 14:08:55

Conducted Emission Plot (1GHz ~ 19.1GHz) for

16-QAM (RB Size 1, RB Offset 7)



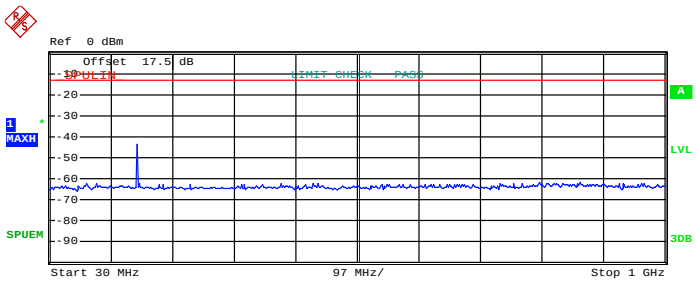
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.652413 G	-52.10	-39.10
1.923 G	3.000 G	1.00 M	1.987689 G	-36.16	-23.16
3.000 G	7.000 G	1.00 M	3.022000 G	-45.96	-32.96
7.000 G	13.600 G	1.00 M	13.263400 G	-45.09	-32.09
13.600 G	19.100 G	1.00 M	13.600000 G	-33.42	-20.42

Date: 25.JAN.2013 14:09:27

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)

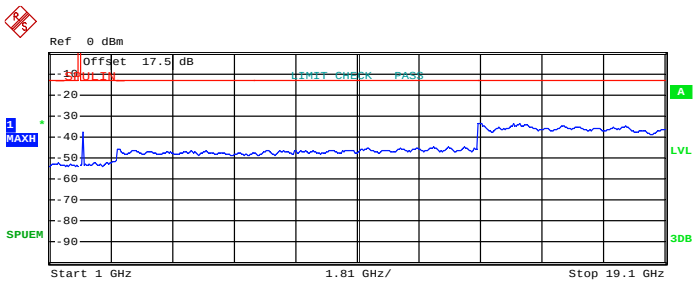


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	167.255000 M	-43.85	-30.85

Date: 25.JAN.2013 13:30:19

Conducted Emission Plot (1GHz ~ 19.1GHz) for

QPSK (RB Size 1, RB Offset 0)



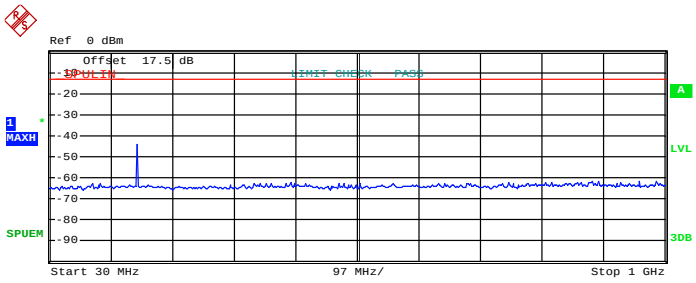
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.248319 G	-52.56	-39.56
1.923 G	3.000 G	1.00 M	1.986072 G	-37.46	-24.46
3.000 G	7.000 G	1.00 M	3.032000 G	-45.74	-32.74
7.000 G	13.600 G	1.00 M	12.712300 G	-44.75	-31.75
13.600 G	19.100 G	1.00 M	13.608250 G	-33.43	-20.43

Date: 25.JAN.2013 13:28:36

Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
Frequency :	1907.5	Channel :	19175

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

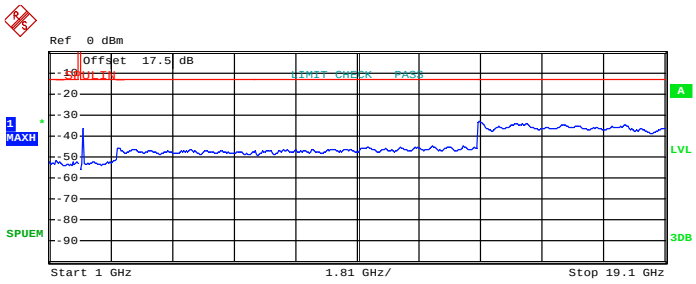


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	167.255000 M	-44.12	-31.12

Date: 25.JAN.2013 13:29:48

Conducted Emission Plot (1GHz ~ 19.1GHz) for

16-QAM (RB Size 1, RB Offset 0)



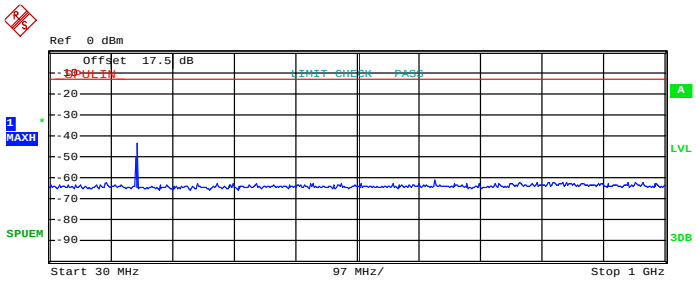
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.195556 G	-51.60	-38.60
1.923 G	3.000 G	1.00 M	1.987150 G	-36.28	-23.28
3.000 G	7.000 G	1.00 M	3.026000 G	-45.88	-32.88
7.000 G	13.600 G	1.00 M	12.263500 G	-44.78	-31.78
13.600 G	19.100 G	1.00 M	13.641250 G	-33.22	-20.22

Date: 25.JAN.2013 13:29:14

Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
Frequency :	1905	Channel :	19150

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 24)

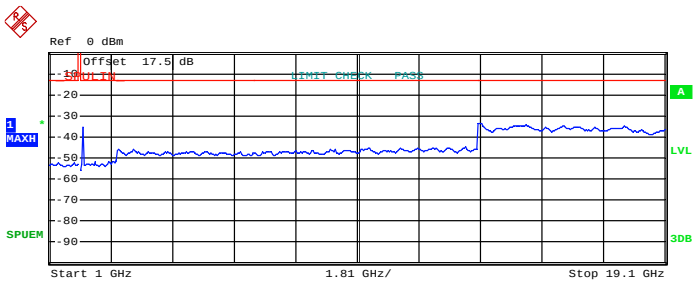


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	166.770000 M	-43.45	-30.45

Date: 25.JAN.2013 14:07:29

Conducted Emission Plot (1GHz ~ 19.1GHz) for

QPSK (RB Size 1, RB Offset 24)



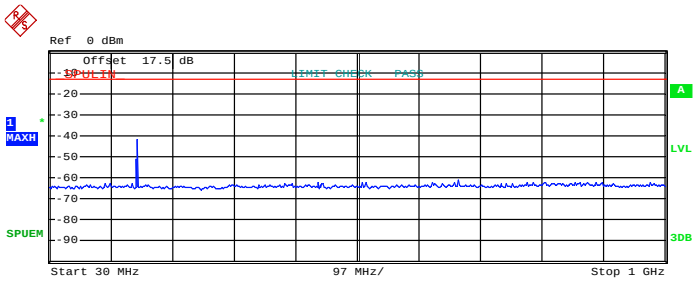
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.262556 G	-52.17	-39.17
1.923 G	3.000 G	1.00 M	1.983379 G	-35.31	-22.31
3.000 G	7.000 G	1.00 M	3.024000 G	-46.01	-33.01
7.000 G	13.600 G	1.00 M	13.217200 G	-44.88	-31.88
13.600 G	19.100 G	1.00 M	13.622000 G	-33.50	-20.50

Date: 25.JAN.2013 14:05:49

Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM
Frequency :	1905	Channel :	19150

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 24)

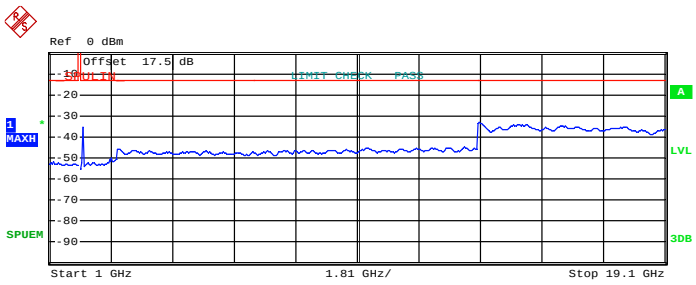


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	166.770000 M	-41.56	-28.56

Date: 25.JAN.2013 14:07:05

Conducted Emission Plot (1GHz ~ 19.1GHz) for

16-QAM (RB Size 1, RB Offset 24)



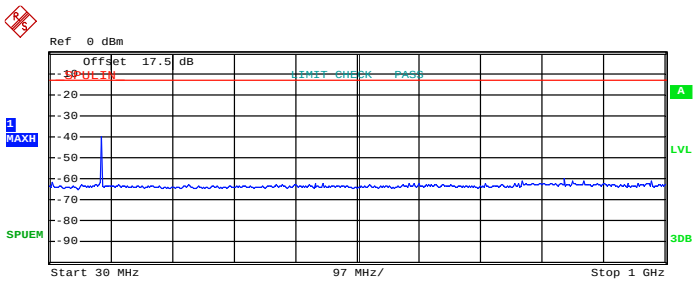
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.099244 G	-51.93	-38.93
1.923 G	3.000 G	1.00 M	1.982301 G	-35.37	-22.37
3.000 G	7.000 G	1.00 M	3.050000 G	-45.72	-32.72
7.000 G	13.600 G	1.00 M	13.213900 G	-44.84	-31.84
13.600 G	19.100 G	1.00 M	13.616500 G	-33.24	-20.24

Date: 25.JAN.2013 14:06:36

Band :	LTE Band 25	BW / Mod. :	1.4MHz / QPSK
Frequency :	1850.7	Channel :	26047

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

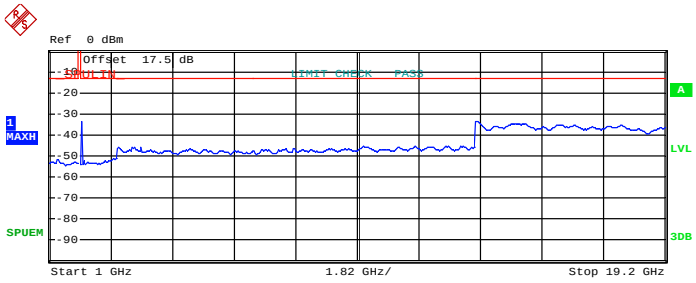


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	111.965000 M	-40.08	-27.08

Date: 21.JAN.2013 15:11:11

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



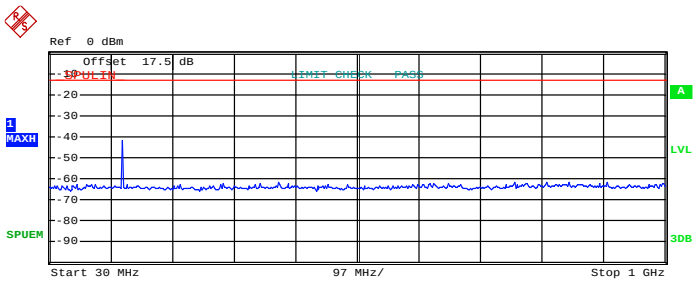
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.219713 G	-51.88	-38.88
1.928 G	3.000 G	1.00 M	1.930144 G	-33.65	-20.65
3.000 G	7.000 G	1.00 M	3.506000 G	-46.06	-33.06
7.000 G	13.600 G	1.00 M	12.778300 G	-45.28	-32.28
13.600 G	19.200 G	1.00 M	13.600000 G	-33.42	-20.42

Date: 21.JAN.2013 15:12:56

Band :	LTE Band 25	BW / Mod. :	1.4MHz / QPSK
Frequency :	1882.5	Channel :	26365

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

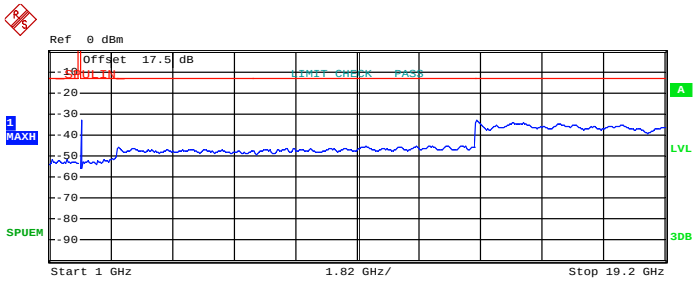


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	143.975000 M	-41.64	-28.64

Date: 21.JAN.2013 15:05:17

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



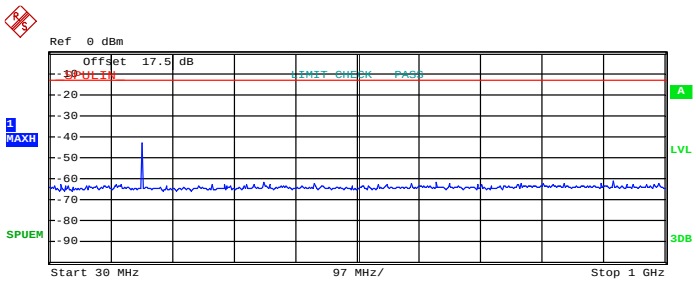
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.059427 G	-51.71	-38.71
1.928 G	3.000 G	1.00 M	1.962304 G	-33.06	-20.06
3.000 G	7.000 G	1.00 M	3.024000 G	-46.05	-33.05
7.000 G	13.600 G	1.00 M	10.362700 G	-45.23	-32.23
13.600 G	19.200 G	1.00 M	13.614000 G	-33.20	-20.20

Date: 21.JAN.2013 15:07:39

Band :	LTE Band 25	BW / Mod. :	1.4MHz / QPSK
Frequency :	1914.3	Channel :	26683

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

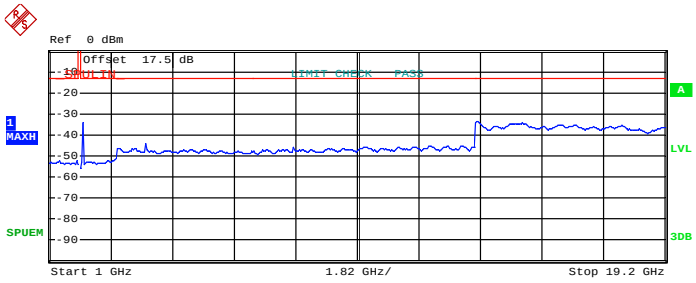


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	175.500000 M	-43.25	-30.25

Date: 21.JAN.2013 15:10:04

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



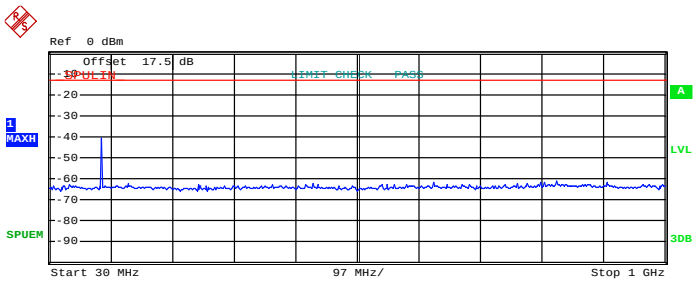
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.281232 G	-52.44	-39.44
1.928 G	3.000 G	1.00 M	1.994464 G	-34.37	-21.37
3.000 G	7.000 G	1.00 M	3.828000 G	-44.40	-31.40
7.000 G	13.600 G	1.00 M	13.184200 G	-45.21	-32.21
13.600 G	19.200 G	1.00 M	13.644800 G	-33.71	-20.71

Date: 21.JAN.2013 15:08:38

Band :	LTE Band 25	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1850.7	Channel :	26047

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

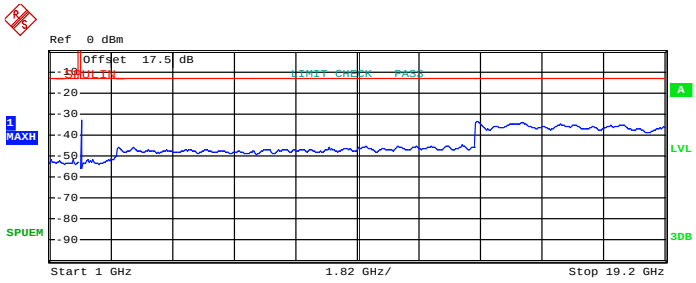


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	111.965000 M	-40.79	-27.79

Date: 21.JAN.2013 15:11:38

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



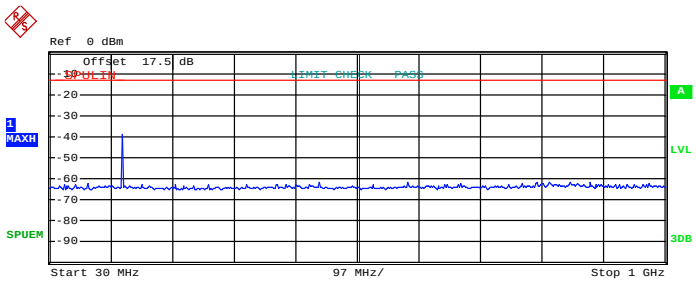
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.052313 G	-51.89	-38.89
1.928 G	3.000 G	1.00 M	1.930680 G	-33.06	-20.06
3.000 G	7.000 G	1.00 M	3.036000 G	-45.96	-32.96
7.000 G	13.600 G	1.00 M	13.180900 G	-44.95	-31.95
13.600 G	19.200 G	1.00 M	13.622400 G	-33.34	-20.34

Date: 21.JAN.2013 15:12:29

Band :	LTE Band 25	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1882.5	Channel :	26365

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

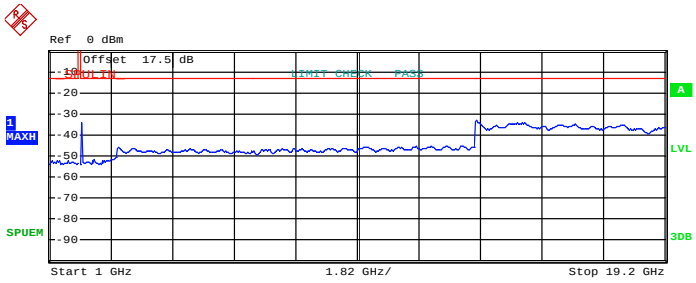


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	143.975000 M	-39.02	-26.02

Date: 21.JAN.2013 15:05:44

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



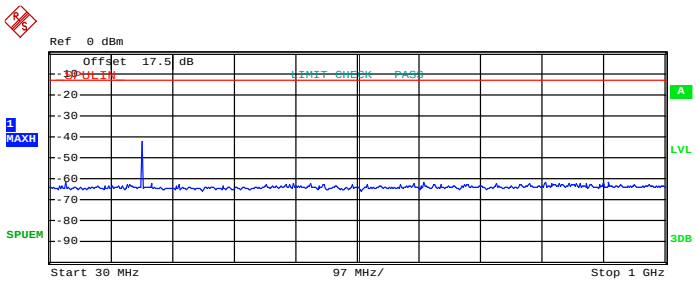
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.299646 G	-52.18	-39.18
1.928 G	3.000 G	1.00 M	1.962304 G	-33.95	-20.95
3.000 G	7.000 G	1.00 M	3.032000 G	-45.62	-32.62
7.000 G	13.600 G	1.00 M	13.213900 G	-45.19	-32.19
13.600 G	19.200 G	1.00 M	13.633600 G	-32.96	-19.96

Date: 21.JAN.2013 15:06:48

Band :	LTE Band 25	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1914.3	Channel :	26683

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

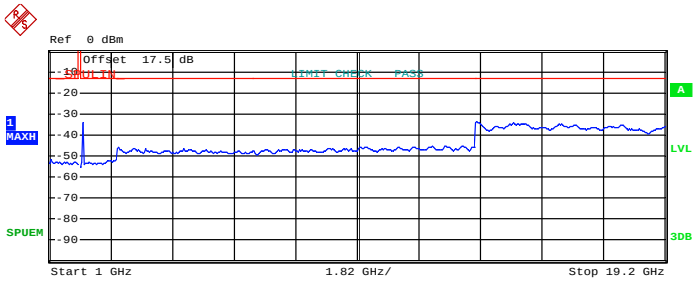


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	175.500000 M	-42.47	-29.47

Date: 21.JAN.2013 15:09:40

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



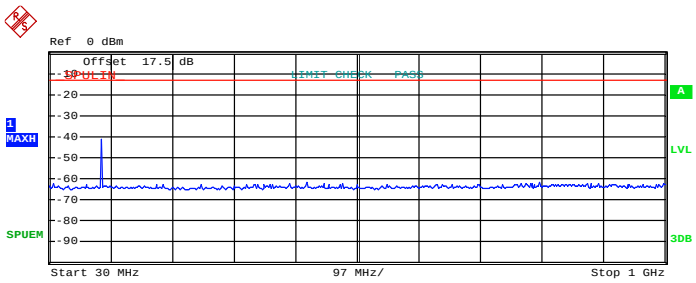
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.044780 G	-51.77	-38.77
1.928 G	3.000 G	1.00 M	1.993928 G	-34.02	-21.02
3.000 G	7.000 G	1.00 M	3.028000 G	-46.01	-33.01
7.000 G	13.600 G	1.00 M	13.184200 G	-45.25	-32.25
13.600 G	19.200 G	1.00 M	13.611200 G	-33.90	-20.90

Date: 21.JAN.2013 15:09:07

Band :	LTE Band 25	BW / Mod. :	3MHz / QPSK
Frequency :	1851.5	Channel :	26055

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

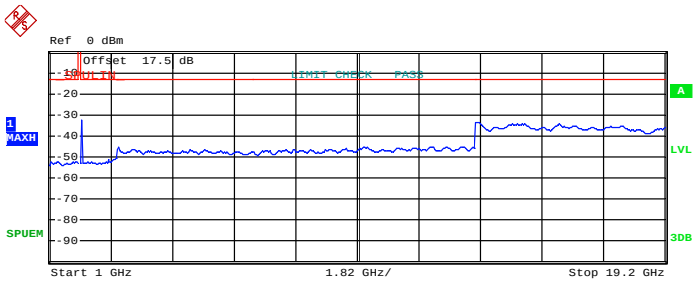


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	111.965000 M	-41.19	-28.19

Date: 21.JAN.2013 15:22:15

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



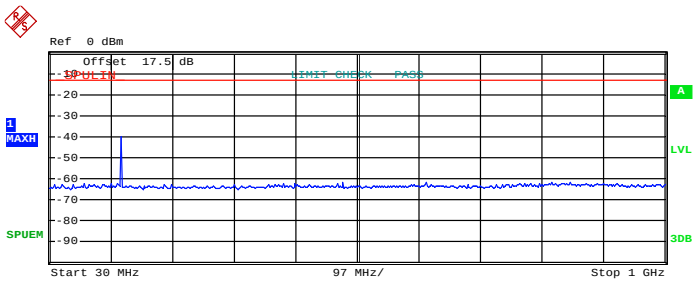
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.777991 G	-52.22	-39.22
1.928 G	3.000 G	1.00 M	1.930680 G	-32.73	-19.73
3.000 G	7.000 G	1.00 M	3.032000 G	-45.48	-32.48
7.000 G	13.600 G	1.00 M	13.187500 G	-45.22	-32.22
13.600 G	19.200 G	1.00 M	13.630800 G	-33.38	-20.38

Date: 21.JAN.2013 15:20:40

Band :	LTE Band 25	BW / Mod. :	3MHz / QPSK
Frequency :	1882.5	Channel :	26365

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

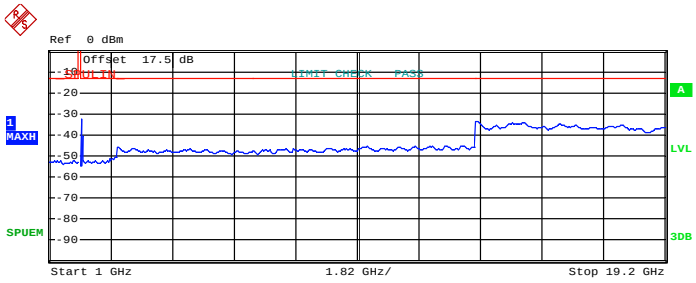


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	143.005000 M	-40.24	-27.24

Date: 21.JAN.2013 15:16:28

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



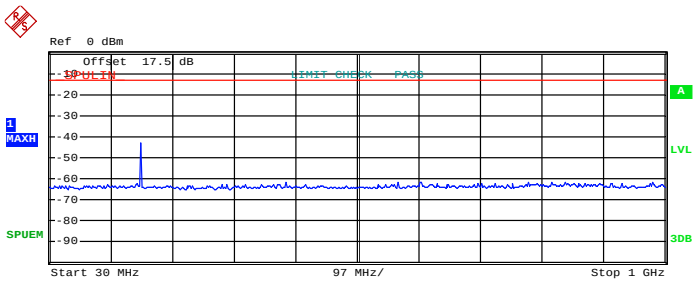
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.212180 G	-52.08	-39.08
1.928 G	3.000 G	1.00 M	1.962304 G	-32.39	-19.39
3.000 G	7.000 G	1.00 M	3.046000 G	-46.11	-33.11
7.000 G	13.600 G	1.00 M	13.174300 G	-45.21	-32.21
13.600 G	19.200 G	1.00 M	13.611200 G	-33.60	-20.60

Date: 21.JAN.2013 15:14:15

Band :	LTE Band 25	BW / Mod. :	3MHz / QPSK
Frequency :	1913.5	Channel :	26675

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

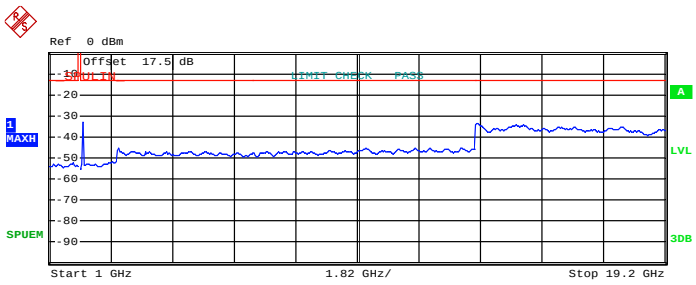


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	174.045000 M	-42.98	-29.98

Date: 21.JAN.2013 15:17:33

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



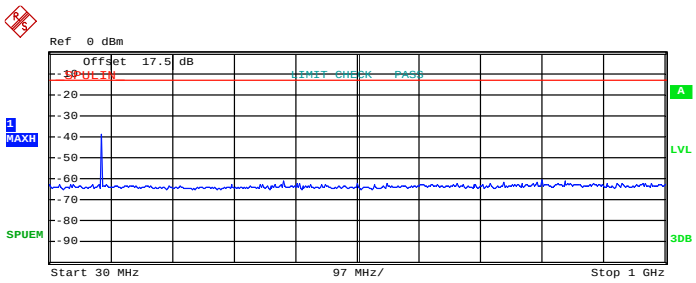
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.702243 G	-52.40	-39.40
1.928 G	3.000 G	1.00 M	1.993928 G	-32.95	-19.95
3.000 G	7.000 G	1.00 M	3.032000 G	-45.46	-32.46
7.000 G	13.600 G	1.00 M	13.161100 G	-45.33	-32.33
13.600 G	19.200 G	1.00 M	13.642000 G	-33.75	-20.75

Date: 21.JAN.2013 15:19:24

Band :	LTE Band 25	BW / Mod. :	3MHz / 16QAM
Frequency :	1851.5	Channel :	26055

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

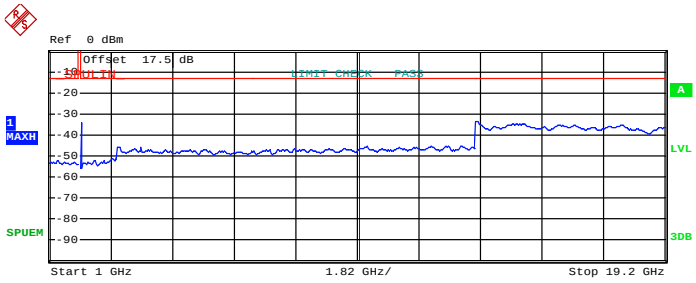


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	111.965000 M	-38.72	-25.72

Date: 21.JAN.2013 15:21:44

Conducted Emission Plot (1GHz ~ 19.2GHz) for

16-QAM (RB Size 1, RB Offset 0)



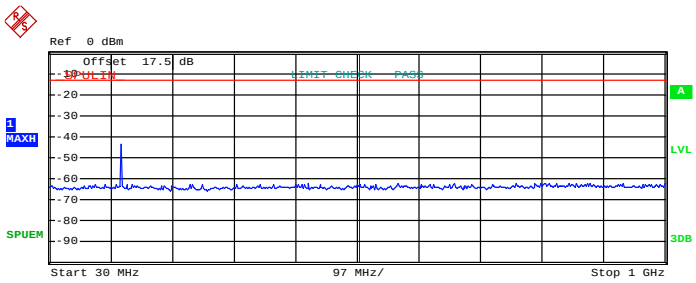
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.231849 G	-52.05	-39.05
1.928 G	3.000 G	1.00 M	1.931216 G	-34.38	-21.38
3.000 G	7.000 G	1.00 M	3.048000 G	-45.92	-32.92
7.000 G	13.600 G	1.00 M	13.174300 G	-45.46	-32.46
13.600 G	19.200 G	1.00 M	13.678400 G	-33.50	-20.50

Date: 21.JAN.2013 15:21:02

Band :	LTE Band 25	BW / Mod. :	3MHz / 16QAM
Frequency :	1882.5	Channel :	26365

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

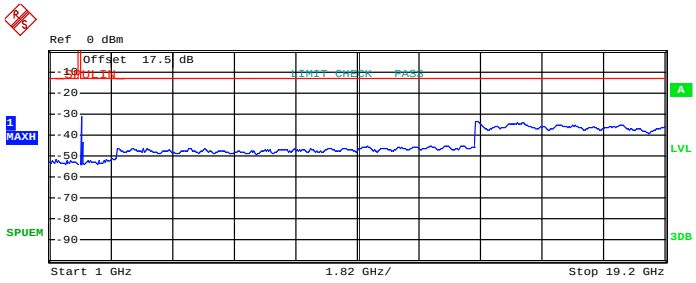


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	143.005000 M	-43.56	-30.56

Date: 21.JAN.2013 15:15:35

Conducted Emission Plot (1GHz ~ 19.2GHz) for

16-QAM (RB Size 1, RB Offset 0)



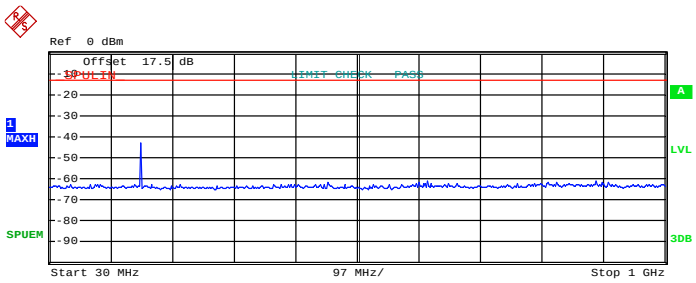
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.189580 G	-51.71	-38.71
1.928 G	3.000 G	1.00 M	1.962304 G	-31.28	-18.28
3.000 G	7.000 G	1.00 M	3.020000 G	-46.20	-33.20
7.000 G	13.600 G	1.00 M	13.230400 G	-45.26	-32.26
13.600 G	19.200 G	1.00 M	13.667200 G	-33.53	-20.53

Date: 21.JAN.2013 15:15:00

Band :	LTE Band 25	BW / Mod. :	3MHz / 16QAM
Frequency :	1913.5	Channel :	26675

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

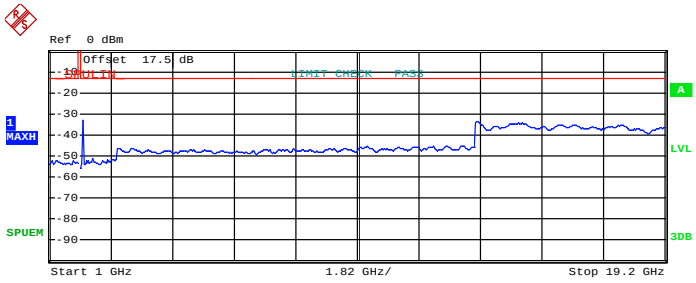


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	174.045000 M	-43.12	-30.12

Date: 21.JAN.2013 15:18:20

Conducted Emission Plot (1GHz ~ 19.2GHz) for

16-QAM (RB Size 1, RB Offset 0)



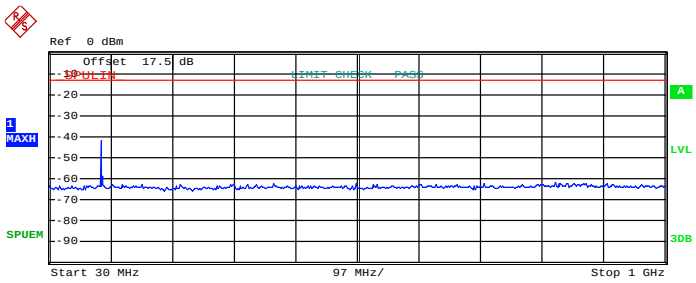
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.080352 G	-52.18	-39.18
1.928 G	3.000 G	1.00 M	1.993392 G	-33.16	-20.16
3.000 G	7.000 G	1.00 M	3.050000 G	-46.23	-33.23
7.000 G	13.600 G	1.00 M	10.395700 G	-45.19	-32.19
13.600 G	19.200 G	1.00 M	13.636400 G	-33.40	-20.40

Date: 21.JAN.2013 15:19:00

Band :	LTE Band 25	BW / Mod. :	5MHz / QPSK
Frequency :	1852.5	Channel :	26065

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

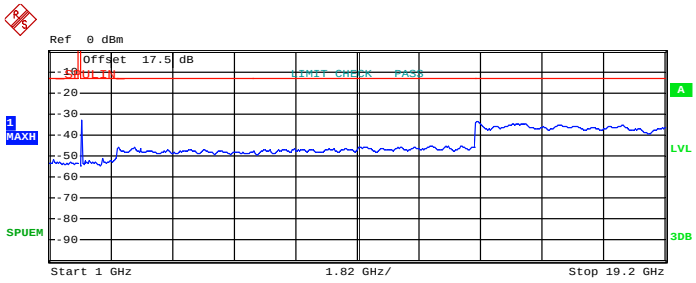


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	111.965000 M	-41.83	-28.83

Date: 21.JAN.2013 15:42:01

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



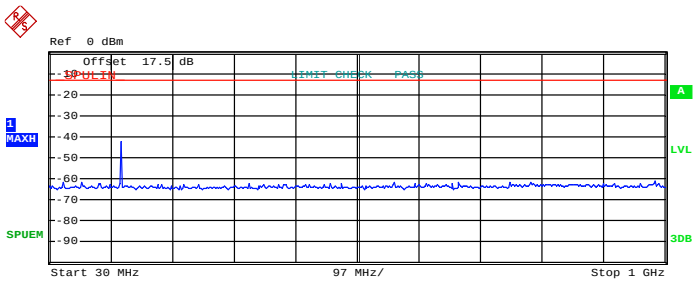
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.104625 G	-51.71	-38.71
1.928 G	3.000 G	1.00 M	1.931216 G	-33.25	-20.25
3.000 G	7.000 G	1.00 M	3.024000 G	-46.04	-33.04
7.000 G	13.600 G	1.00 M	12.289900 G	-45.33	-32.33
13.600 G	19.200 G	1.00 M	13.633600 G	-33.81	-20.81

Date: 21.JAN.2013 15:39:21

Band :	LTE Band 25	BW / Mod. :	5MHz / QPSK
Frequency :	1882.5	Channel :	26365

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

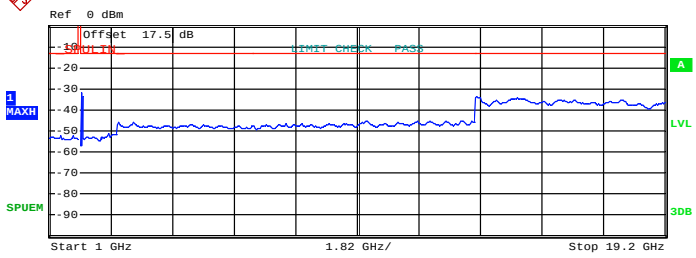


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	142.035000 M	-42.61	-29.61

Date: 21.JAN.2013 15:33:28

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



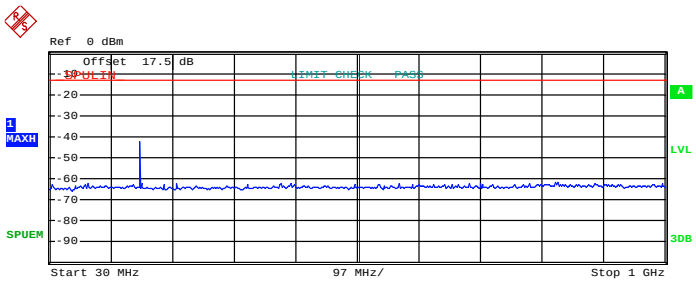
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.309690 G	-52.29	-39.29
1.928 G	3.000 G	1.00 M	1.961232 G	-32.02	-19.02
3.000 G	7.000 G	1.00 M	3.020000 G	-45.75	-32.75
7.000 G	13.600 G	1.00 M	12.253600 G	-45.24	-32.24
13.600 G	19.200 G	1.00 M	13.616800 G	-33.63	-20.63

Date: 21.JAN.2013 15:27:39

Band :	LTE Band 25	BW / Mod. :	5MHz / QPSK
Frequency :	1912.5	Channel :	26665

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

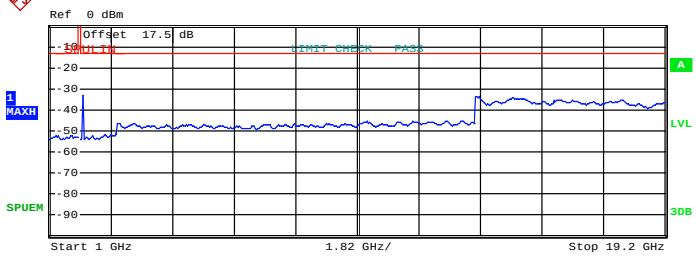


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	172.105000 M	-42.53	-29.53

Date: 21.JAN.2013 15:59:44

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



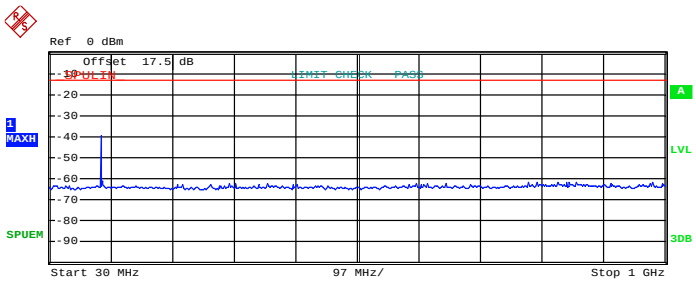
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.616869 G	-52.19	-39.19
1.928 G	3.000 G	1.00 M	1.992856 G	-33.20	-20.20
3.000 G	7.000 G	1.00 M	3.464000 G	-46.24	-33.24
7.000 G	13.600 G	1.00 M	13.164400 G	-45.11	-32.11
13.600 G	19.200 G	1.00 M	13.600000 G	-33.55	-20.55

Date: 21.JAN.2013 15:58:08

Band :	LTE Band 25	BW / Mod. :	5MHz / 16QAM
Frequency :	1852.5	Channel :	26065

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

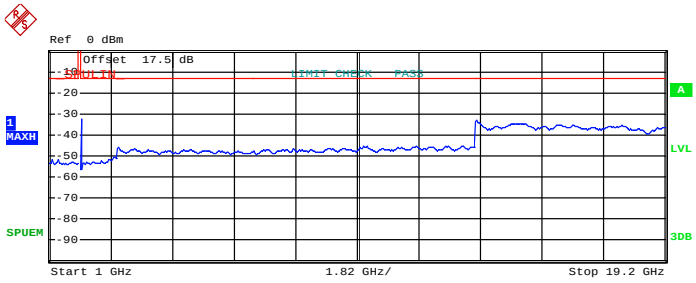


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	111.965000 M	-39.36	-26.36

Date: 21.JAN.2013 15:41:36

Conducted Emission Plot (1GHz ~ 19.2GHz) for

16-QAM (RB Size 1, RB Offset 0)



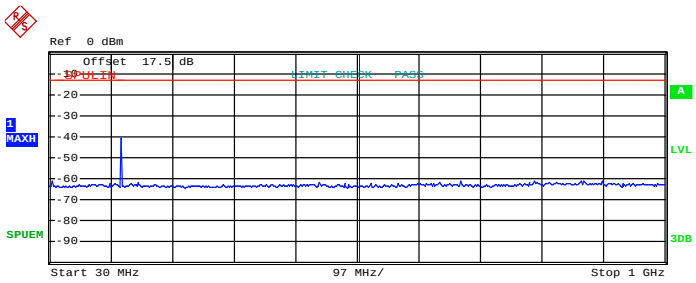
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.077841 G	-51.90	-38.90
1.928 G	3.000 G	1.00 M	1.932824 G	-32.60	-19.60
3.000 G	7.000 G	1.00 M	3.032000 G	-45.82	-32.82
7.000 G	13.600 G	1.00 M	12.725500 G	-45.26	-32.26
13.600 G	19.200 G	1.00 M	13.616800 G	-33.24	-20.24

Date: 21.JAN.2013 15:40:21

Band :	LTE Band 25	BW / Mod. :	5MHz / 16QAM
Frequency :	1882.5	Channel :	26365

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

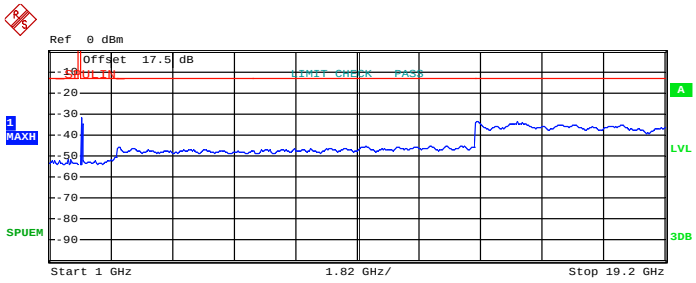


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	142.035000 M	-40.59	-27.59

Date: 21.JAN.2013 15:32:45

Conducted Emission Plot (1GHz ~ 19.2GHz) for

16-QAM (RB Size 1, RB Offset 0)



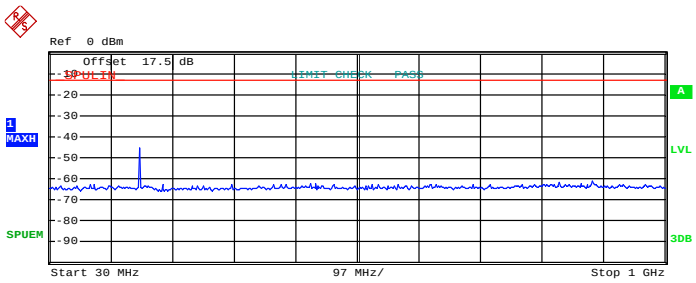
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.532332 G	-51.95	-38.95
1.928 G	3.000 G	1.00 M	1.962304 G	-32.06	-19.06
3.000 G	7.000 G	1.00 M	3.042000 G	-46.00	-33.00
7.000 G	13.600 G	1.00 M	13.180900 G	-45.20	-32.20
13.600 G	19.200 G	1.00 M	13.614000 G	-33.42	-20.42

Date: 21.JAN.2013 15:31:07

Band :	LTE Band 25	BW / Mod. :	5MHz / 16QAM
Frequency :	1912.5	Channel :	26665

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

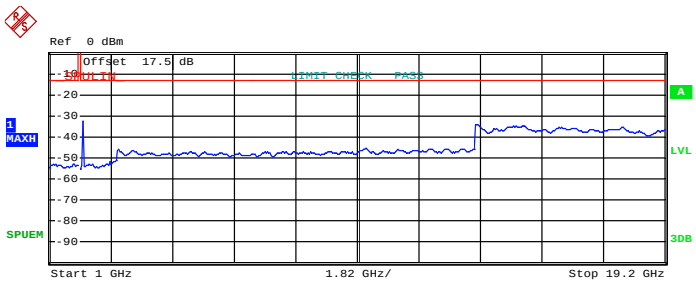


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	172.105000 M	-45.41	-32.41

Date: 21.JAN.2013 15:58:59

Conducted Emission Plot (1GHz ~ 19.2GHz) for

16-QAM (RB Size 1, RB Offset 0)



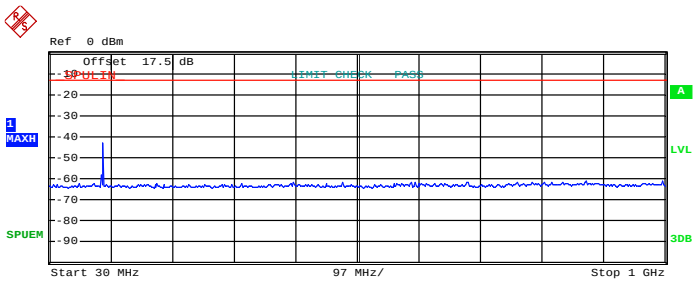
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.109647 G	-52.81	-39.81
1.928 G	3.000 G	1.00 M	1.991784 G	-32.64	-19.64
3.000 G	7.000 G	1.00 M	3.020000 G	-45.91	-32.91
7.000 G	13.600 G	1.00 M	10.362700 G	-45.55	-32.55
13.600 G	19.200 G	1.00 M	13.661600 G	-34.11	-21.11

Date: 21.JAN.2013 15:58:31

Band :	LTE Band 25	BW / Mod. :	10MHz / QPSK
Frequency :	1855	Channel :	26090

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

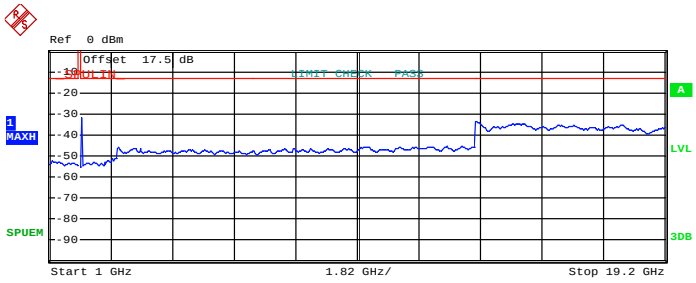


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	112.450000 M	-42.73	-29.73

Date: 21.JAN.2013 15:49:21

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



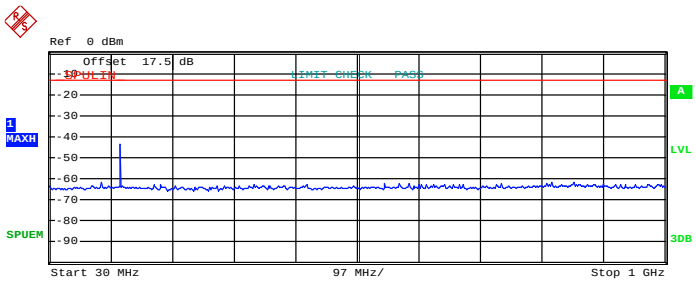
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.065286 G	-52.59	-39.59
1.928 G	3.000 G	1.00 M	1.938184 G	-31.65	-18.65
3.000 G	7.000 G	1.00 M	3.034000 G	-46.03	-33.03
7.000 G	13.600 G	1.00 M	13.197400 G	-45.16	-32.16
13.600 G	19.200 G	1.00 M	13.605600 G	-33.69	-20.69

Date: 21.JAN.2013 15:52:13

Band :	LTE Band 25	BW / Mod. :	10MHz / QPSK
Frequency :	1882.5	Channel :	26365

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

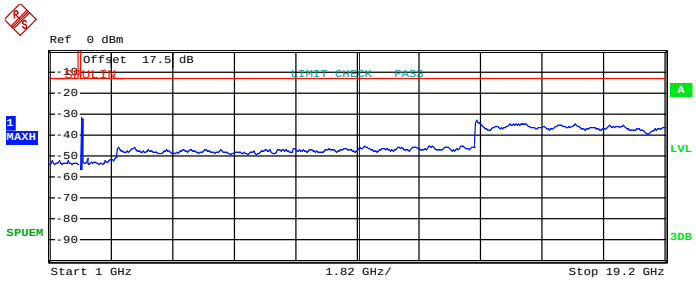


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	139.610000 M	-43.58	-30.58

Date: 21.JAN.2013 15:43:00

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



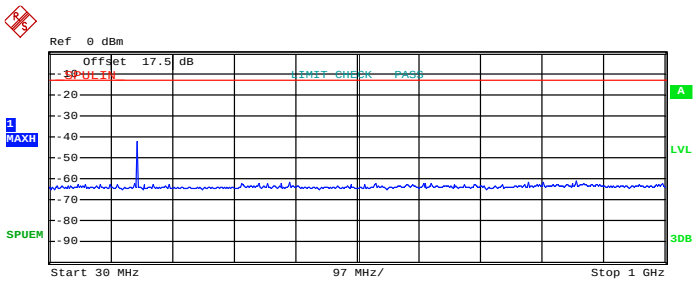
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.282488 G	-52.35	-39.35
1.928 G	3.000 G	1.00 M	1.962840 G	-32.04	-19.04
3.000 G	7.000 G	1.00 M	3.038000 G	-45.73	-32.73
7.000 G	13.600 G	1.00 M	13.180900 G	-45.03	-32.03
13.600 G	19.200 G	1.00 M	13.619600 G	-33.24	-20.24

Date: 21.JAN.2013 15:44:46

Band :	LTE Band 25	BW / Mod. :	10MHz / QPSK
Frequency :	1910	Channel :	26640

Conducted Emission Plot (30MHz ~ 1GHz) for

QPSK (RB Size 1, RB Offset 0)

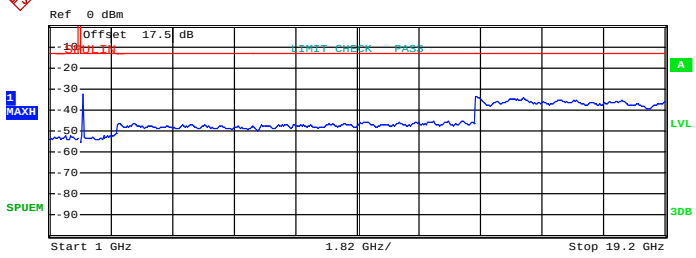


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	167.255000 M	-42.58	-29.58

Date: 21.JAN.2013 15:47:09

Conducted Emission Plot (1GHz ~ 19.2GHz) for

QPSK (RB Size 1, RB Offset 0)



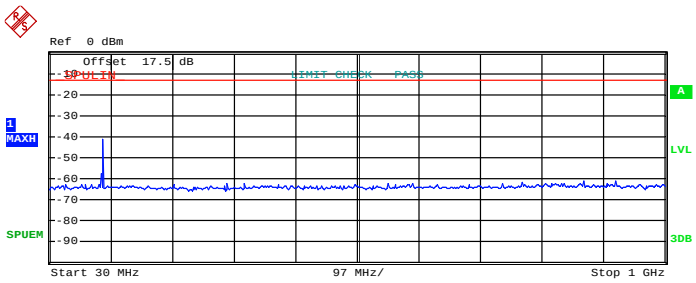
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.613103 G	-52.32	-39.32
1.928 G	3.000 G	1.00 M	1.990176 G	-32.67	-19.67
3.000 G	7.000 G	1.00 M	3.028000 G	-46.61	-33.61
7.000 G	13.600 G	1.00 M	12.339400 G	-45.15	-32.15
13.600 G	19.200 G	1.00 M	13.619600 G	-33.69	-20.69

Date: 21.JAN.2013 15:45:36

Band :	LTE Band 25	BW / Mod. :	10MHz / 16QAM
Frequency :	1855	Channel :	26090

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

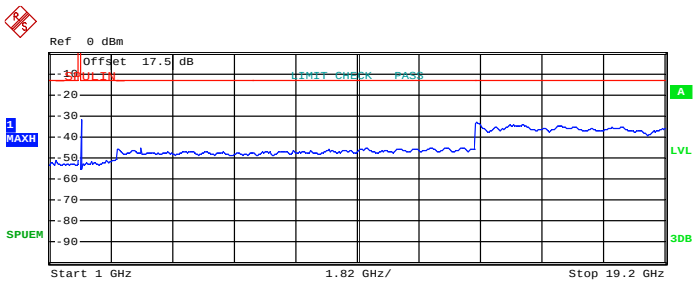


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	112.450000 M	-41.52	-28.52

Date: 21.JAN.2013 15:49:48

Conducted Emission Plot (1GHz ~ 19.2GHz) for

16-QAM (RB Size 1, RB Offset 0)



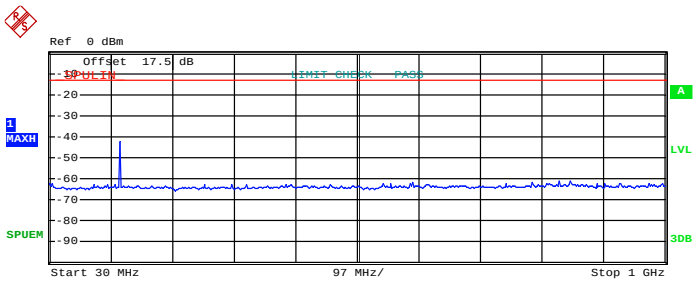
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.199206 G	-51.13	-38.13
1.928 G	3.000 G	1.00 M	1.936576 G	-31.62	-18.62
3.000 G	7.000 G	1.00 M	3.700000 G	-45.56	-32.56
7.000 G	13.600 G	1.00 M	13.157800 G	-45.30	-32.30
13.600 G	19.200 G	1.00 M	13.644800 G	-33.25	-20.25

Date: 21.JAN.2013 15:51:49

Band :	LTE Band 25	BW / Mod. :	10MHz / 16QAM
Frequency :	1882.5	Channel :	26365

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

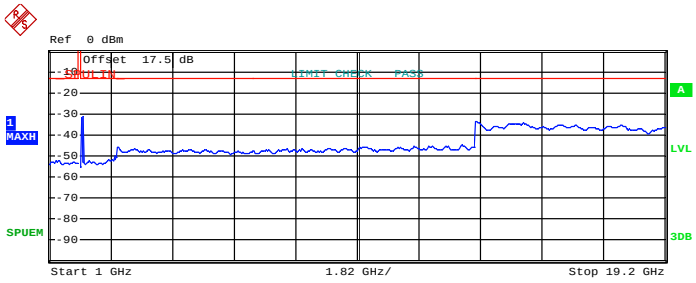


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	139.610000 M	-42.23	-29.23

Date: 21.JAN.2013 15:43:32

Conducted Emission Plot (1GHz ~ 19.2GHz) for

16-QAM (RB Size 1, RB Offset 0)



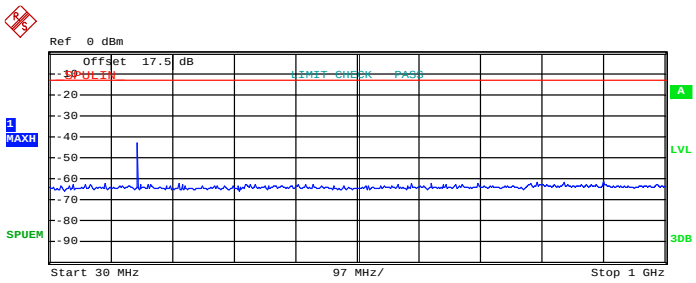
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.194603 G	-52.17	-39.17
1.928 G	3.000 G	1.00 M	1.964448 G	-31.47	-18.47
3.000 G	7.000 G	1.00 M	3.010000 G	-45.91	-32.91
7.000 G	13.600 G	1.00 M	13.174300 G	-44.94	-31.94
13.600 G	19.200 G	1.00 M	13.625200 G	-33.59	-20.59

Date: 21.JAN.2013 15:44:14

Band :	LTE Band 25	BW / Mod. :	10MHz / 16QAM
Frequency :	1910	Channel :	26640

Conducted Emission Plot (30MHz ~ 1GHz) for

16-QAM (RB Size 1, RB Offset 0)

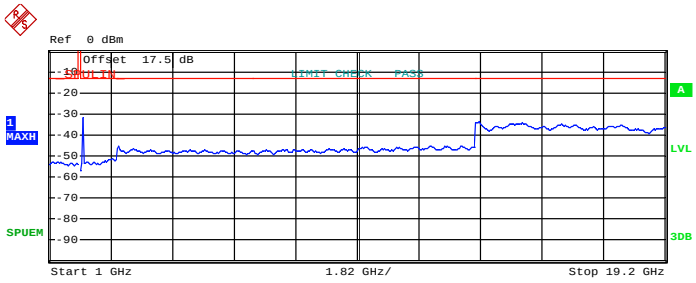


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	100.00 k	167.255000 M	-42.95	-29.95

Date: 21.JAN.2013 15:46:42

Conducted Emission Plot (1GHz ~ 19.2GHz) for

16-QAM (RB Size 1, RB Offset 0)



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.000 G	1.837 G	1.00 M	1.325593 G	-52.78	-39.78
1.928 G	3.000 G	1.00 M	1.988032 G	-32.01	-19.01
3.000 G	7.000 G	1.00 M	3.028000 G	-45.54	-32.54
7.000 G	13.600 G	1.00 M	12.243700 G	-45.10	-32.10
13.600 G	19.200 G	1.00 M	13.692400 G	-33.68	-20.68

Date: 21.JAN.2013 15:46:15

3.5 Radiated Emissions Measurement

3.5.1 Description of Radiated Emissions 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.

3.5.2 Measuring Instruments

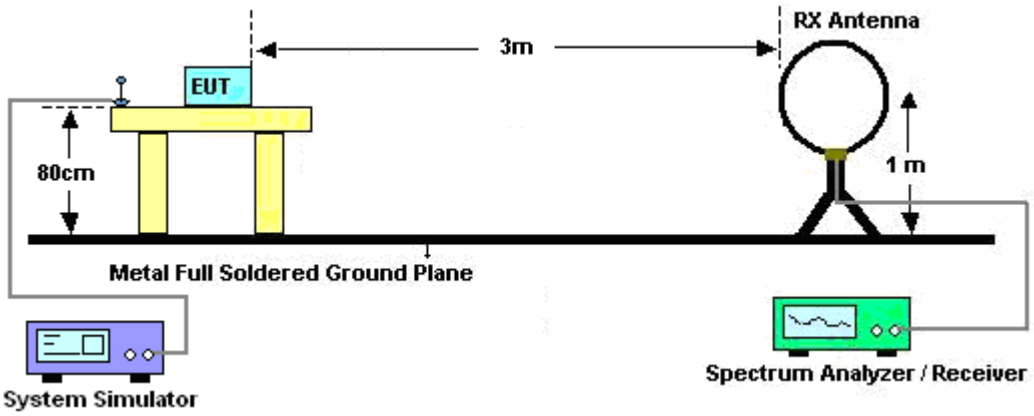
See list of measuring instruments of this test report.

3.5.3 Test Procedures

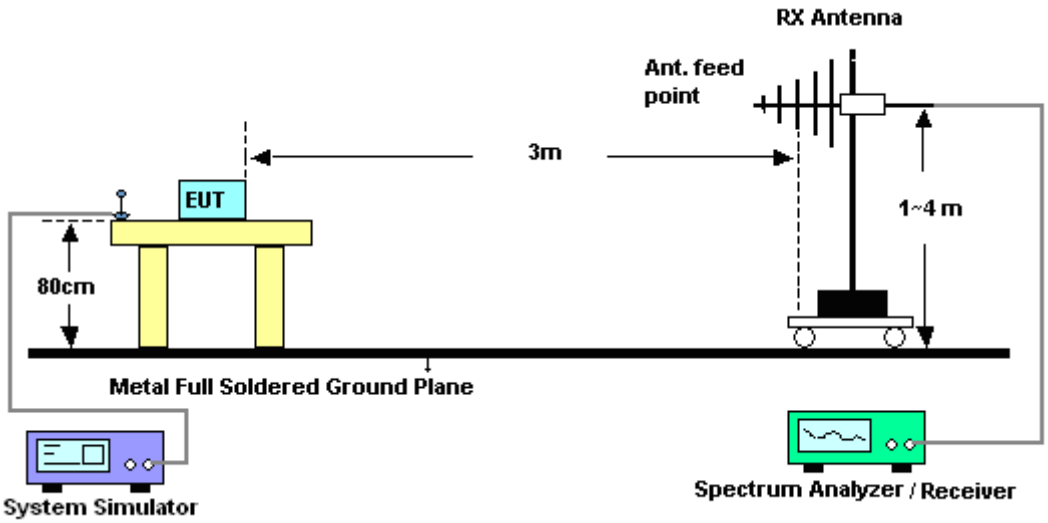
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving 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, 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.

3.5.4 Test Setup

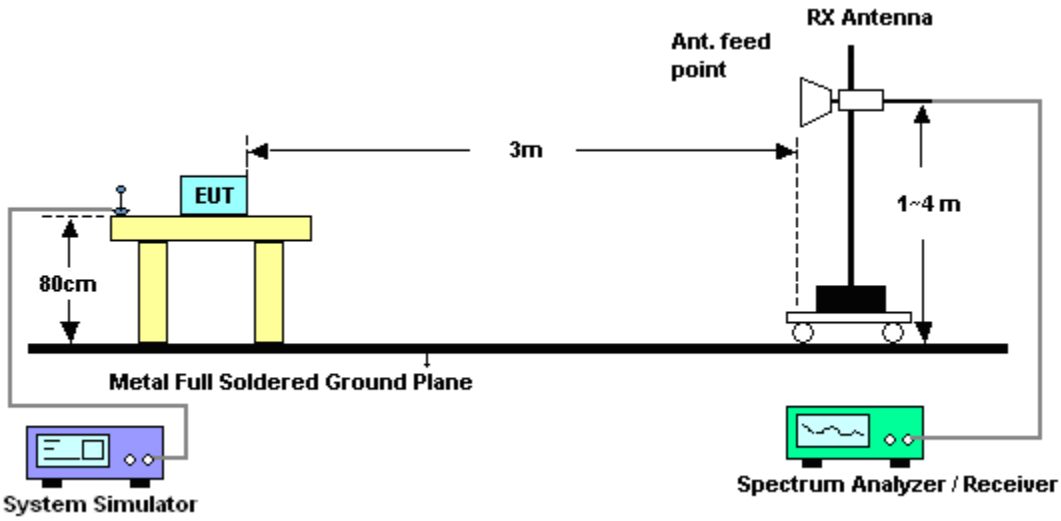
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

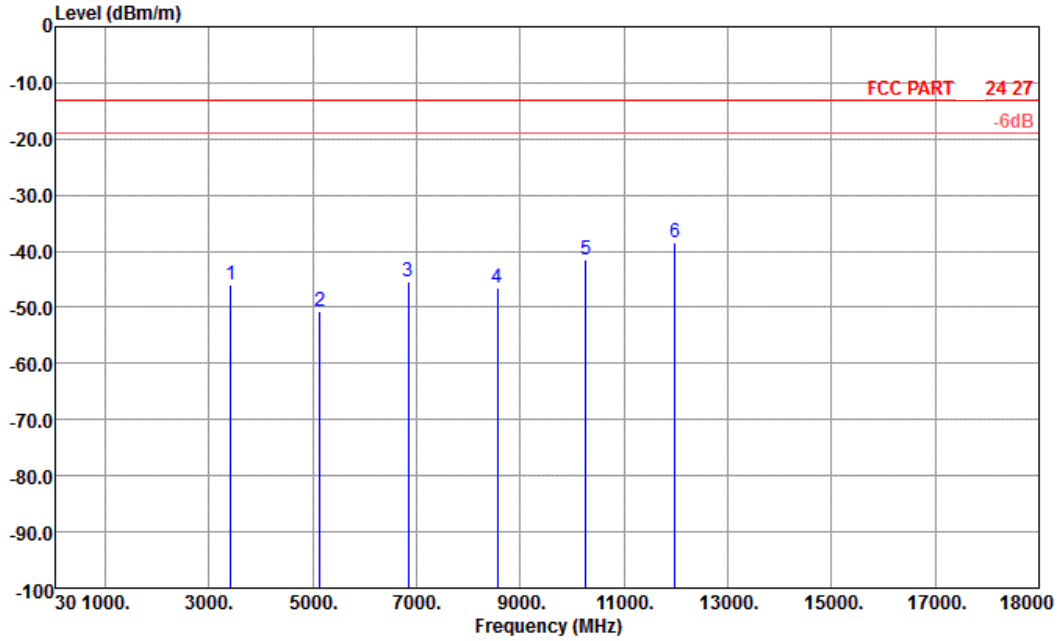


3.5.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

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.

3.5.6 Test Result of Radiated Emissions

Band :	LTE Band 4	Temperature :	21~22°C
Test Mode :	1.4MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

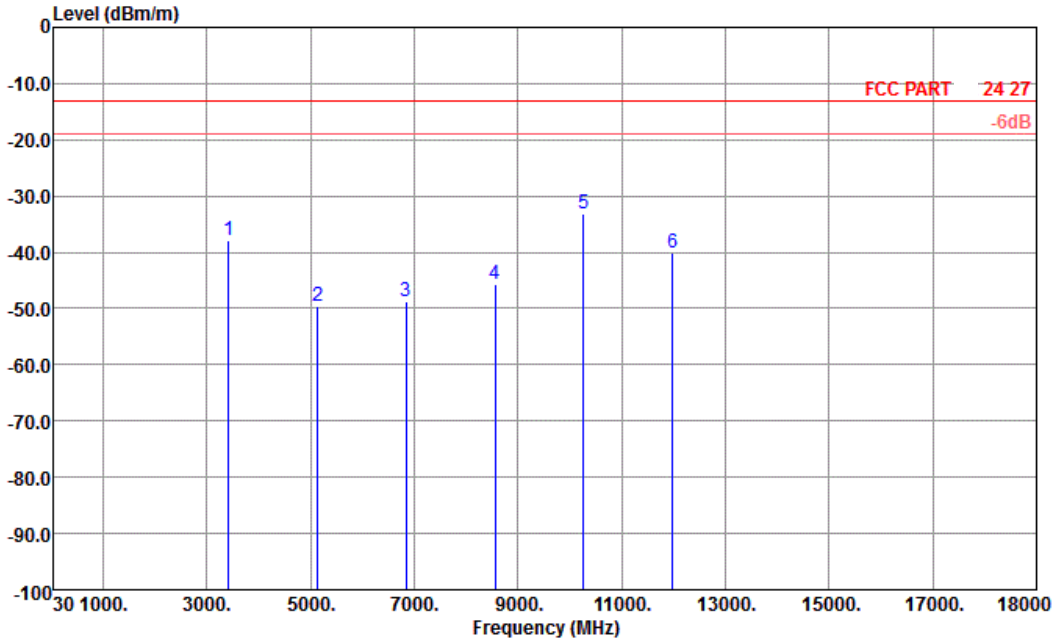


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : H

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
3421.40	-46.06	-13	-33.06	-58.53	-38.20	1.15	7.54	H	Pass
5132.10	-50.82	-13	-37.82	-69.78	-68.60	1.51	9.80	H	Pass
6842.80	-45.38	-13	-32.38	-69.00	-67.90	1.75	11.51	H	Pass
8553.50	-46.47	-13	-33.47	-72.73	-58.70	1.97	12.86	H	Pass
10264.20	-41.53	-13	-28.53	-71.47	-54.80	2.11	12.90	H	Pass
11974.90	-38.40	-13	-25.40	-72.08	-53.00	2.24	13.10	H	Pass

Band :	LTE Band 4	Temperature :	21~22°C
Test Mode :	1.4MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

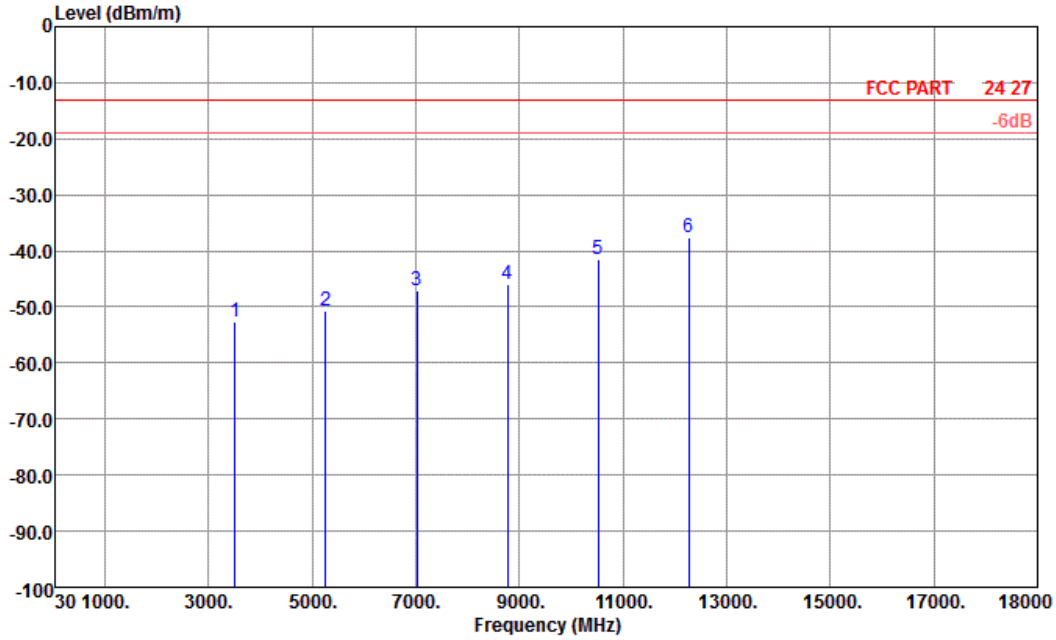


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : H

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
3421.4	-38.40	-13	-25.40	-53.76	-43.20	1.15	7.54	V	Pass
5132.1	-49.46	-13	-36.46	-68.86	-70.30	1.51	9.80	V	Pass
6842.8	-48.70	-13	-35.70	-72.03	-64.60	1.75	11.51	V	Pass
8553.5	-45.67	-13	-32.67	-71.57	-56.60	1.97	12.86	V	Pass
10264.2	-33.04	-13	-20.04	-71.78	-53.60	2.11	12.90	V	Pass
11974.9	-40.24	-13	-27.24	-72.58	-52.20	2.24	13.10	V	Pass

Band :	LTE Band 4	Temperature :	21~22°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

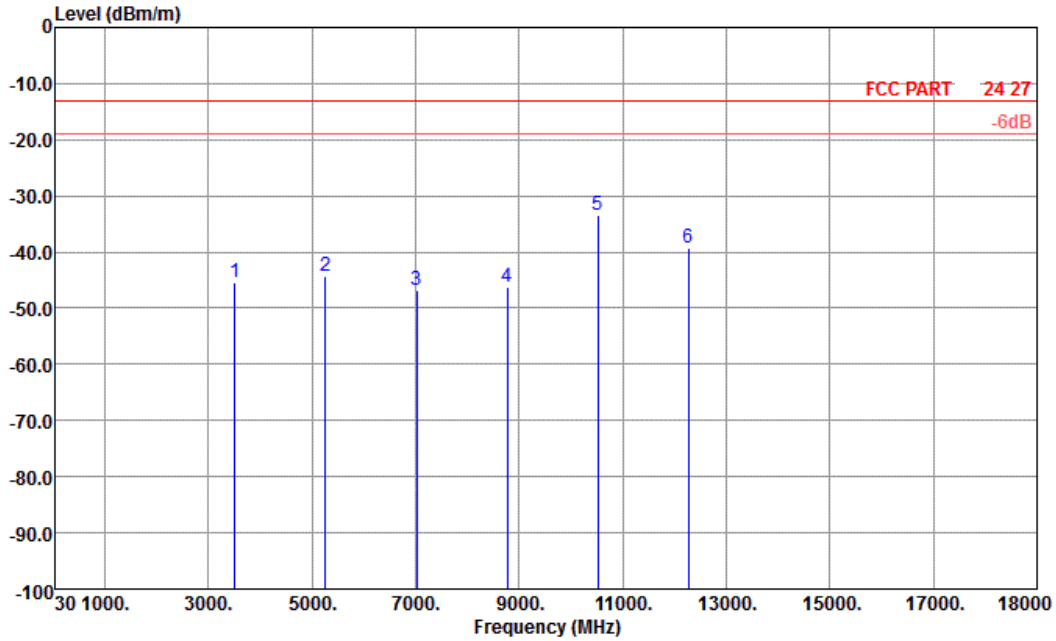


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : H

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
3507.00	-52.60	-13	-39.60	-63.68	-38.20	1.15	7.54	H	Pass
5260.50	-50.83	-13	-37.83	-69.79	-68.60	1.51	9.80	H	Pass
7014.00	-47.13	-13	-34.13	-70.75	-67.90	1.75	11.51	H	Pass
8767.50	-45.97	-13	-32.97	-72.23	-58.70	1.97	12.86	H	Pass
10521.00	-41.59	-13	-28.59	-71.53	-54.80	2.11	12.90	H	Pass
12274.50	-37.72	-13	-24.72	-71.40	-53.00	2.24	13.10	H	Pass

Band :	LTE Band 4	Temperature :	21~22°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

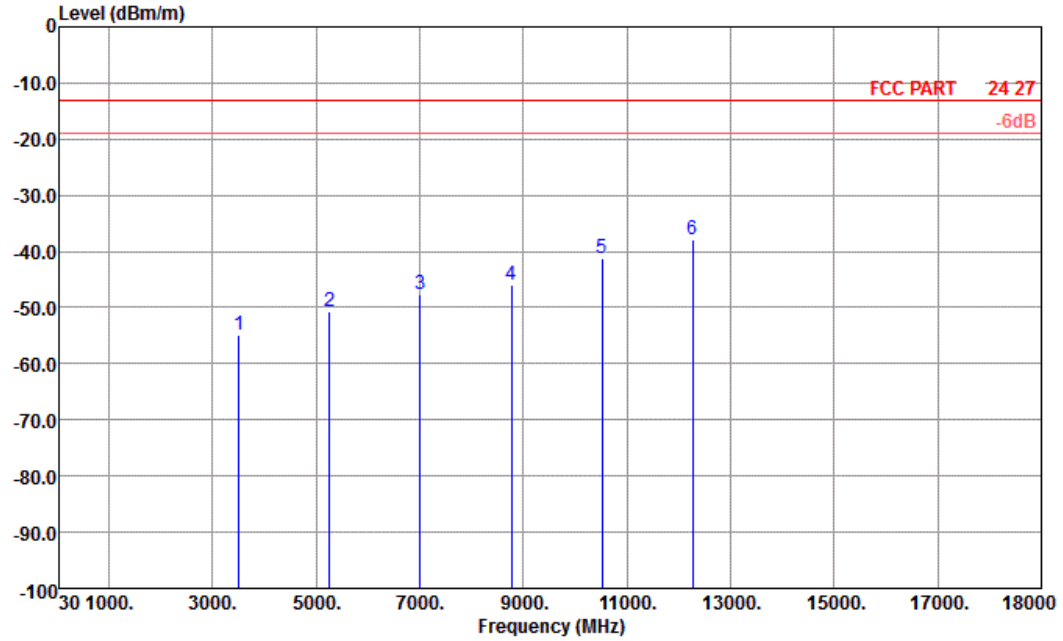


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : H

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
3507.00	-45.45	-13	-32.45	-59.31	-43.20	1.15	7.54	V	Pass
5260.50	-44.24	-13	-31.24	-63.64	-70.30	1.51	9.80	V	Pass
7014.00	-46.93	-13	-33.93	-70.26	-64.60	1.75	11.51	V	Pass
8767.50	-46.11	-13	-33.11	-72.01	-56.60	1.97	12.86	V	Pass
10521.00	-33.35	-13	-20.35	-72.09	-53.60	2.11	12.90	V	Pass
12274.50	-39.17	-13	-26.17	-71.51	-52.20	2.24	13.10	V	Pass

Band :	LTE Band 4	Temperature :	21~22°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

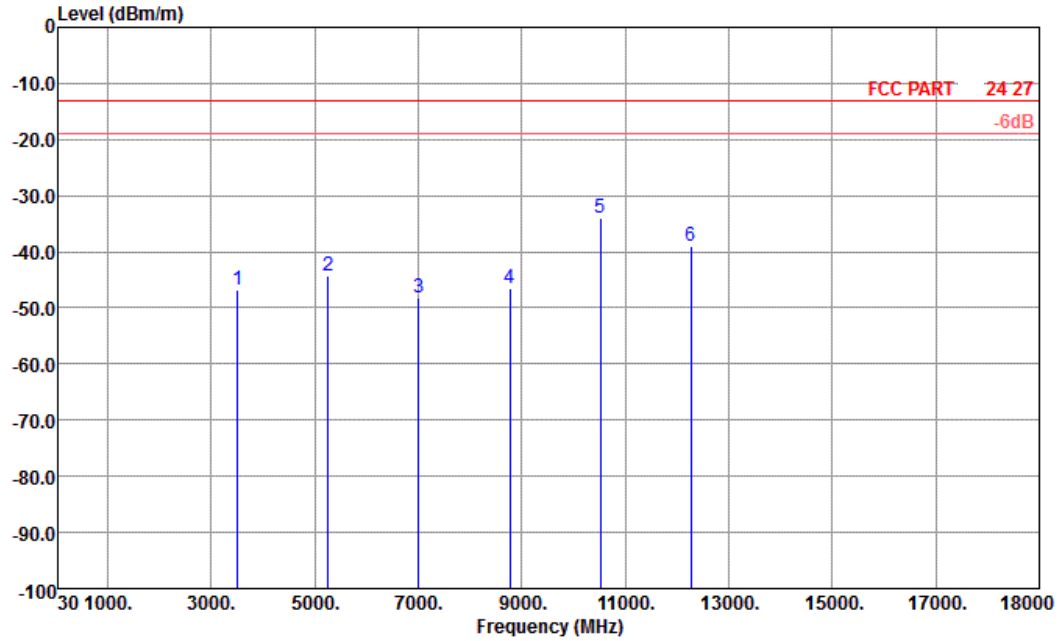


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : H

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
3505.00	-54.87	-13	-41.87	-65.95	-38.20	1.15	7.54	H	Pass
5257.50	-50.71	-13	-37.71	-69.67	-68.60	1.51	9.80	H	Pass
7010.00	-47.74	-13	-34.74	-71.36	-67.90	1.75	11.51	H	Pass
8762.50	-46.05	-13	-33.05	-72.31	-58.70	1.97	12.86	H	Pass
10515.00	-41.36	-13	-28.36	-71.30	-54.80	2.11	12.90	H	Pass
12267.50	-38.02	-13	-25.02	-71.70	-53.00	2.24	13.10	H	Pass

Band :	LTE Band 4	Temperature :	21~22°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

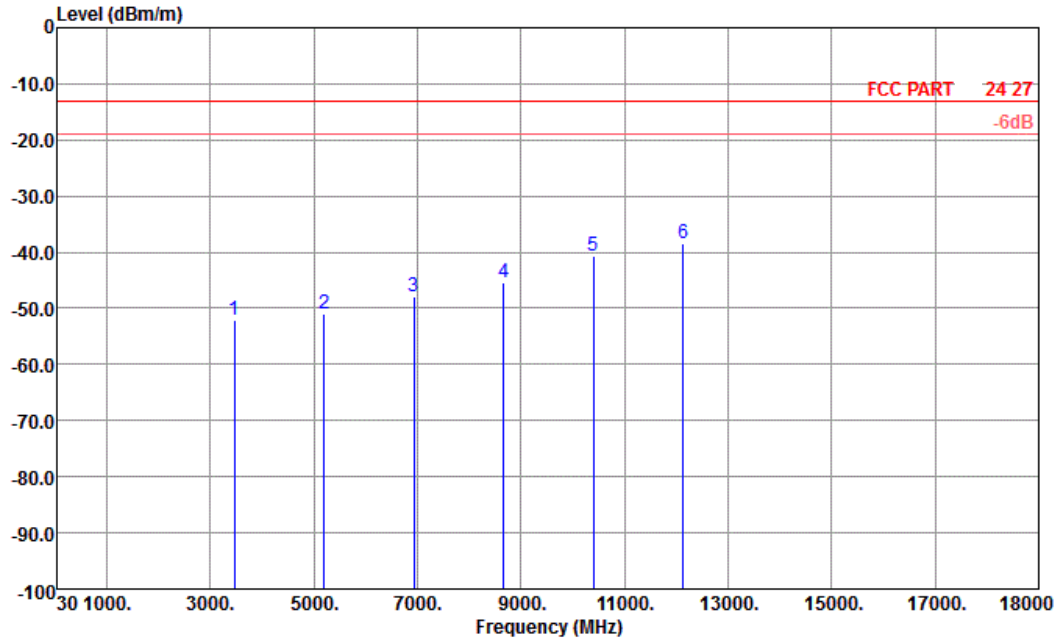


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : H

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
3505.00	-46.89	-13	-33.89	-60.36	-43.20	1.15	7.54	V	Pass
5257.50	-44.30	-13	-31.30	-63.7	-70.30	1.51	9.80	V	Pass
7010.00	-48.29	-13	-35.29	-71.62	-64.60	1.75	11.51	V	Pass
8762.50	-46.46	-13	-33.46	-72.36	-56.60	1.97	12.86	V	Pass
10515.00	-34.00	-13	-21.00	-72.74	-53.60	2.11	12.90	V	Pass
12267.50	-38.97	-13	-25.97	-71.31	-52.20	2.24	13.10	V	Pass

Band :	LTE Band 4	Temperature :	21~22°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

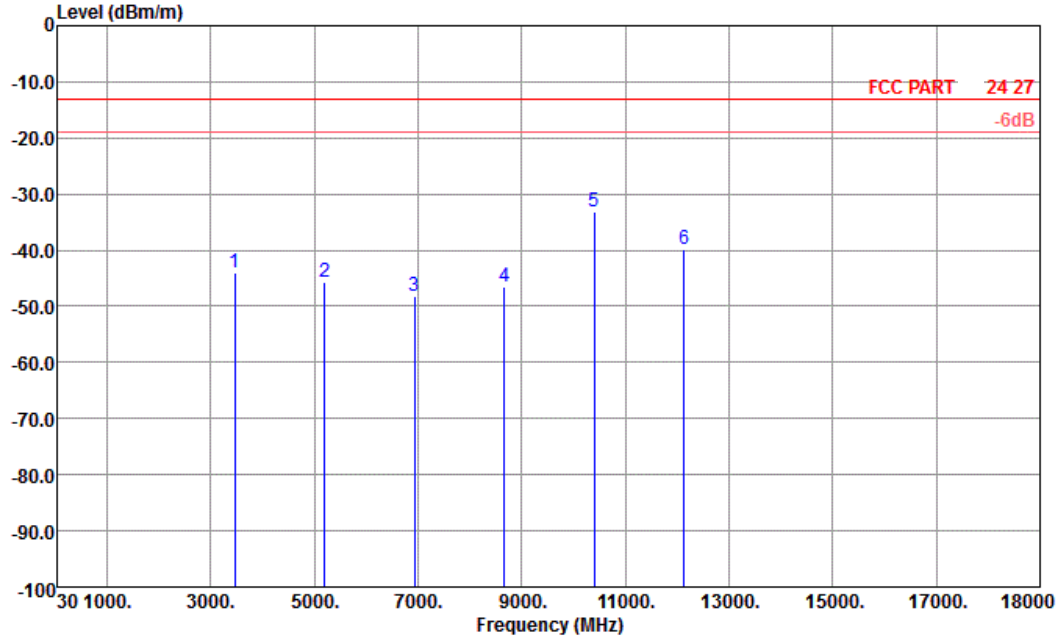


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : H

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
3465.00	-52.17	-13	-39.17	-63.25	-38.20	1.15	7.54	H	Pass
5197.50	-51.01	-13	-38.01	-69.97	-68.60	1.51	9.80	H	Pass
6930.00	-47.99	-13	-34.99	-71.61	-67.90	1.75	11.51	H	Pass
8662.50	-45.51	-13	-32.51	-71.77	-58.70	1.97	12.86	H	Pass
10395.00	-40.56	-13	-27.56	-70.50	-54.80	2.11	12.90	H	Pass
12127.50	-38.39	-13	-25.39	-72.07	-53.00	2.24	13.10	H	Pass

Band :	LTE Band 4	Temperature :	21~22°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

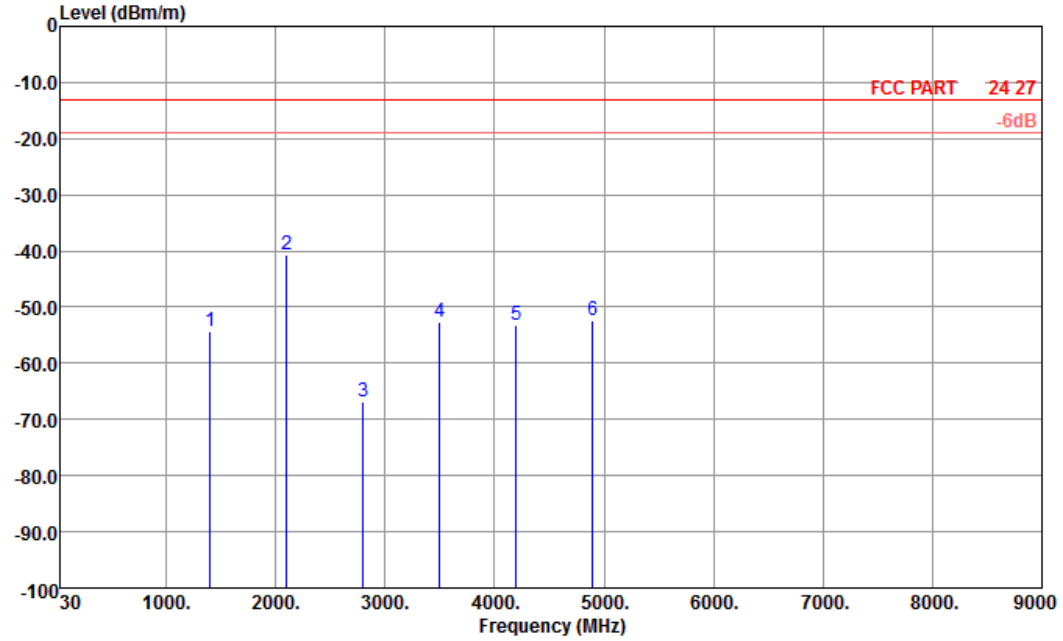


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : H

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
3465.00	-44.11	-13	-31.11	-58.15	-43.20	1.15	7.54	V	Pass
5197.50	-45.79	-13	-32.79	-65.19	-70.30	1.51	9.80	V	Pass
6930.00	-48.07	-13	-35.07	-71.4	-64.60	1.75	11.51	V	Pass
8662.50	-46.40	-13	-33.40	-72.3	-56.60	1.97	12.86	V	Pass
10395.00	-33.26	-13	-20.26	-72	-53.60	2.11	12.90	V	Pass
12127.50	-39.70	-13	-26.70	-72.04	-52.20	2.24	13.10	V	Pass

Band :	LTE Band 12	Temperature :	21~22°C
Test Mode :	1.4MHz, QPSK, RB Size 1, RB Offset 5	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

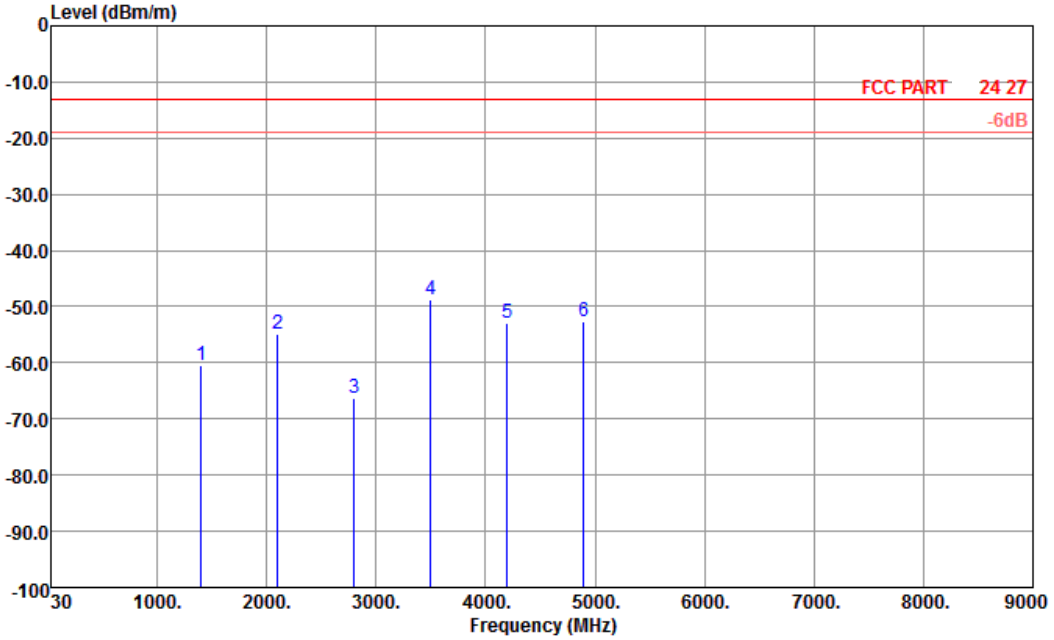


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : E2

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
1399.4	-54.40	-13	-41.40	-67.32	-57.37	0.88	6.00	H	Pass
2099.1	-40.79	-13	-27.79	-64.95	-43.40	1.08	5.84	H	Pass
2798.8	-66.80	-13	-53.80	-77.40	-71.17	1.14	7.66	H	Pass
3498.5	-52.60	-13	-39.60	-67.36	-57.87	1.37	8.79	H	Pass
4198.2	-53.16	-13	-40.16	-71.45	-59.30	1.51	9.80	H	Pass
4897.9	-52.27	-13	-39.27	-70.49	-58.80	1.62	10.30	H	Pass

Band :	LTE Band 12	Temperature :	21~22°C
Test Mode :	1.4MHz, QPSK, RB Size 1, RB Offset 5	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

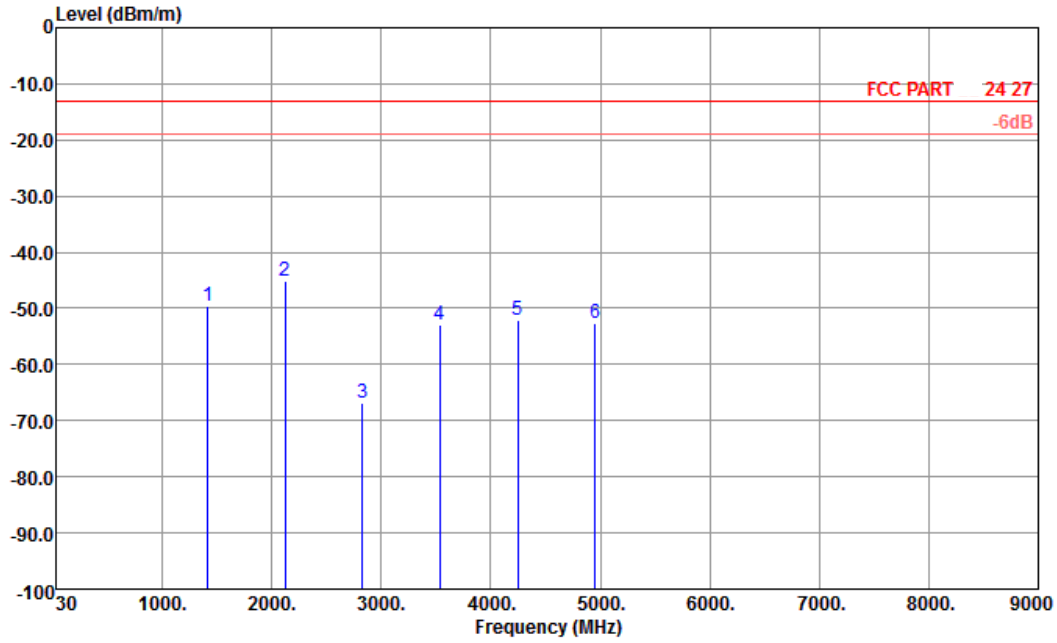


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : E2

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
1399.4	-60.47	-13	-47.47	-71.10	-63.44	0.88	6.00	V	Pass
2099.1	-55.00	-13	-42.00	-73.85	-57.61	1.08	5.84	V	Pass
2798.8	-66.28	-13	-53.28	-78.11	-70.65	1.14	7.66	V	Pass
3498.5	-48.78	-13	-35.78	-64.00	-54.05	1.37	8.79	V	Pass
4198.2	-52.92	-13	-39.92	-70.37	-59.06	1.51	9.80	V	Pass
4897.9	-52.57	-13	-39.57	-70.47	-59.10	1.62	10.30	V	Pass

Band :	LTE Band 12	Temperature :	21~22°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 7	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

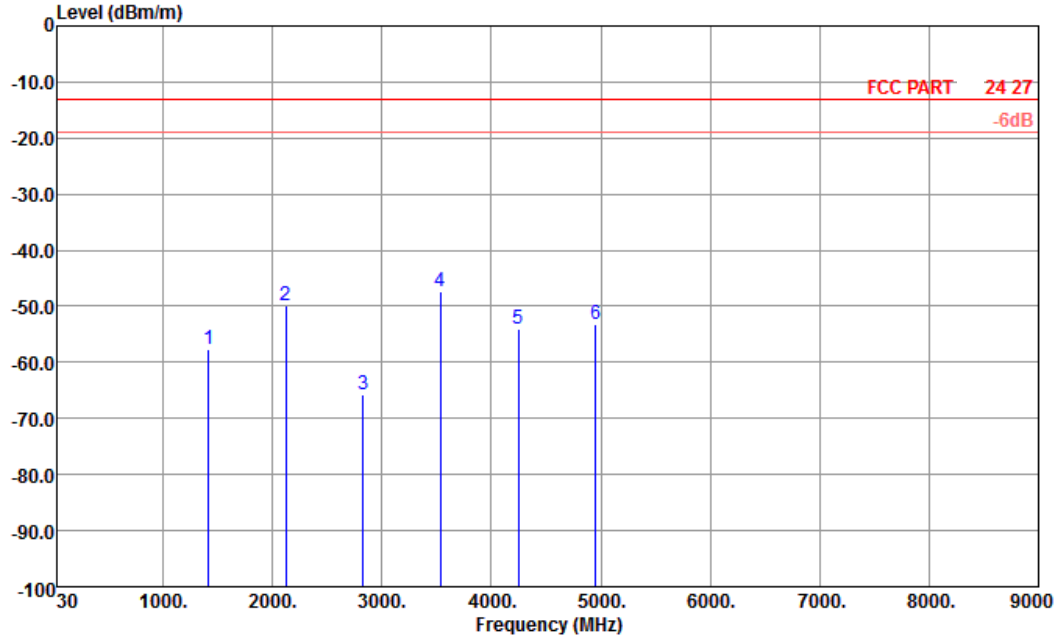


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : E2

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
1401	-49.51	-13	-36.51	-64.25	-52.48	0.88	6.00	H	Pass
2101.5	-45.03	-13	-32.03	-68.02	-47.64	1.08	5.84	H	Pass
2802	-66.79	-13	-53.79	-77.39	-71.16	1.14	7.66	H	Pass
3502.5	-52.90	-13	-39.90	-67.66	-58.17	1.37	8.79	H	Pass
4203	-52.03	-13	-39.03	-70.32	-58.17	1.51	9.80	H	Pass
4903.5	-52.53	-13	-39.53	-70.75	-59.06	1.62	10.30	H	Pass

Band :	LTE Band 12	Temperature :	21~22°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 7	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

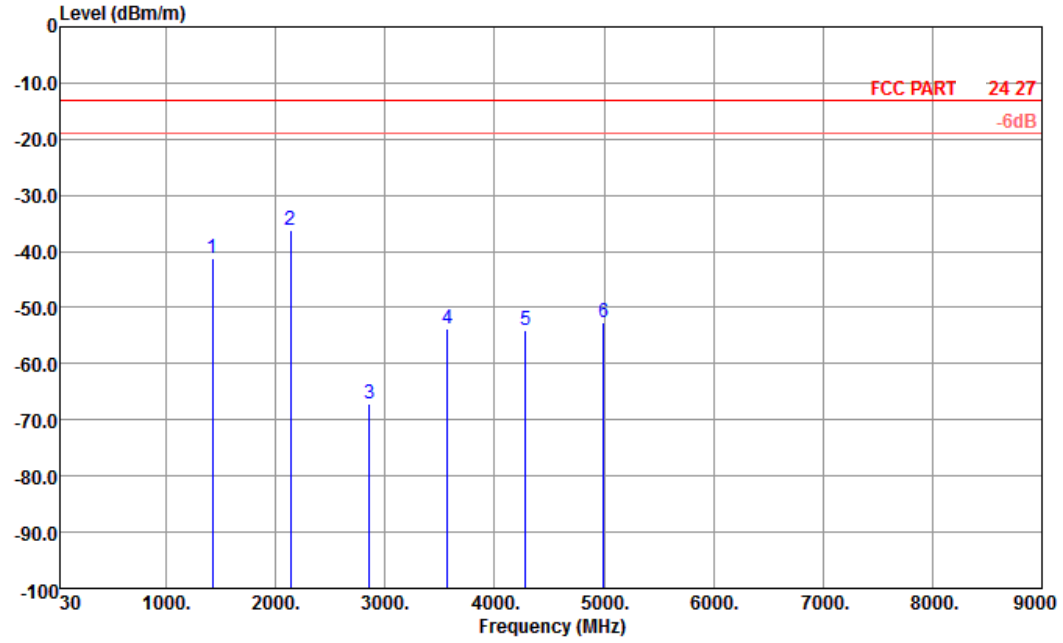


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : E2

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
1401	-57.58	-13	-44.58	-68.21	-60.55	0.88	6.00	V	Pass
2101.5	-49.84	-13	-36.84	-69.80	-52.45	1.08	5.84	V	Pass
2802	-65.85	-13	-52.85	-77.68	-70.22	1.14	7.66	V	Pass
3502.5	-47.44	-13	-34.44	-62.66	-52.71	1.37	8.79	V	Pass
4203	-54.07	-13	-41.07	-71.52	-60.21	1.51	9.80	V	Pass
4903.5	-53.30	-13	-40.30	-71.20	-59.83	1.62	10.30	V	Pass

Band :	LTE Band 12	Temperature :	21~22°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 12	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

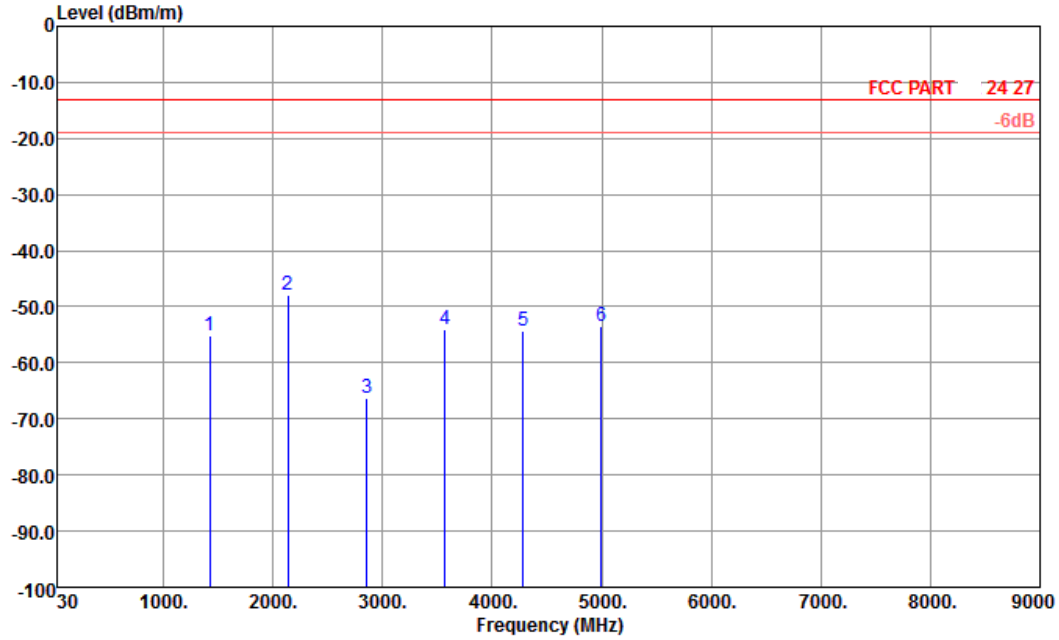


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : E2

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
1427	-41.26	-13	-28.26	-57.79	-44.23	0.88	6.00	H	Pass
2140.5	-36.34	-13	-23.34	-61.13	-38.95	1.08	5.84	H	Pass
2854	-67.22	-13	-54.22	-77.82	-71.59	1.14	7.66	H	Pass
3567.5	-53.74	-13	-40.74	-68.50	-59.01	1.37	8.79	H	Pass
4281	-53.96	-13	-40.96	-72.25	-60.10	1.51	9.80	H	Pass
4994.5	-52.67	-13	-39.67	-70.89	-59.20	1.62	10.30	H	Pass

Band :	LTE Band 12	Temperature :	21~22°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 12	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

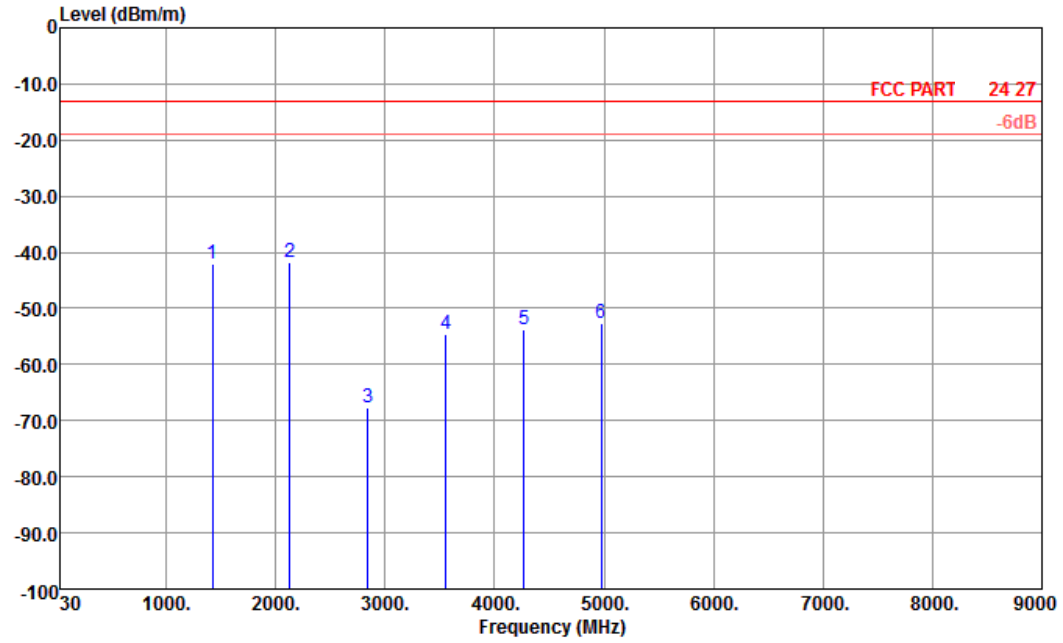


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : E2

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
1427	-55.28	-13	-42.28	-65.91	-58.25	0.88	6.00	V	Pass
2140.5	-47.98	-13	-34.98	-68.50	-50.59	1.08	5.84	V	Pass
2854	-66.21	-13	-53.21	-78.04	-70.58	1.14	7.66	V	Pass
3567.5	-54.08	-13	-41.08	-69.30	-59.35	1.37	8.79	V	Pass
4281	-54.31	-13	-41.31	-71.76	-60.45	1.51	9.80	V	Pass
4994.5	-53.41	-13	-40.41	-71.31	-59.94	1.62	10.30	V	Pass

Band :	LTE Band 12	Temperature :	21~22°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 49	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

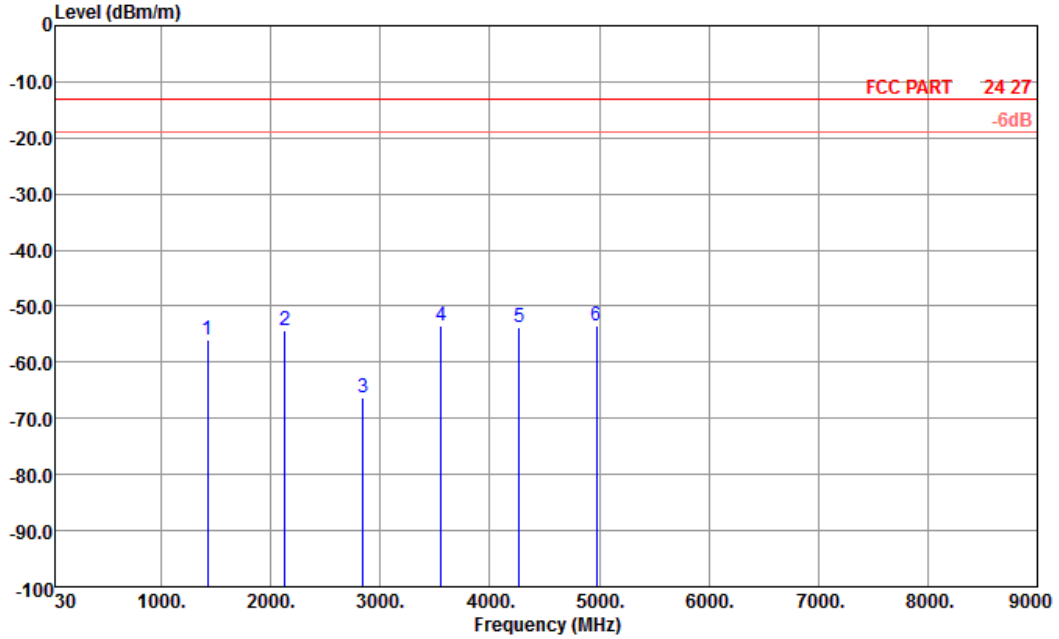


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : E2

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
1422	-42.08	-13	-29.08	-58.42	-45.05	0.88	6.00	H	Pass
2133	-41.91	-13	-28.91	-65.82	-44.52	1.08	5.84	H	Pass
2844	-67.80	-13	-54.80	-78.40	-72.17	1.14	7.66	H	Pass
3555	-54.47	-13	-41.47	-69.23	-59.74	1.37	8.79	H	Pass
4266	-53.77	-13	-40.77	-72.06	-59.91	1.51	9.80	H	Pass
4977	-52.59	-13	-39.59	-70.81	-59.12	1.62	10.30	H	Pass

Band :	LTE Band 12	Temperature :	21~22°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 49	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

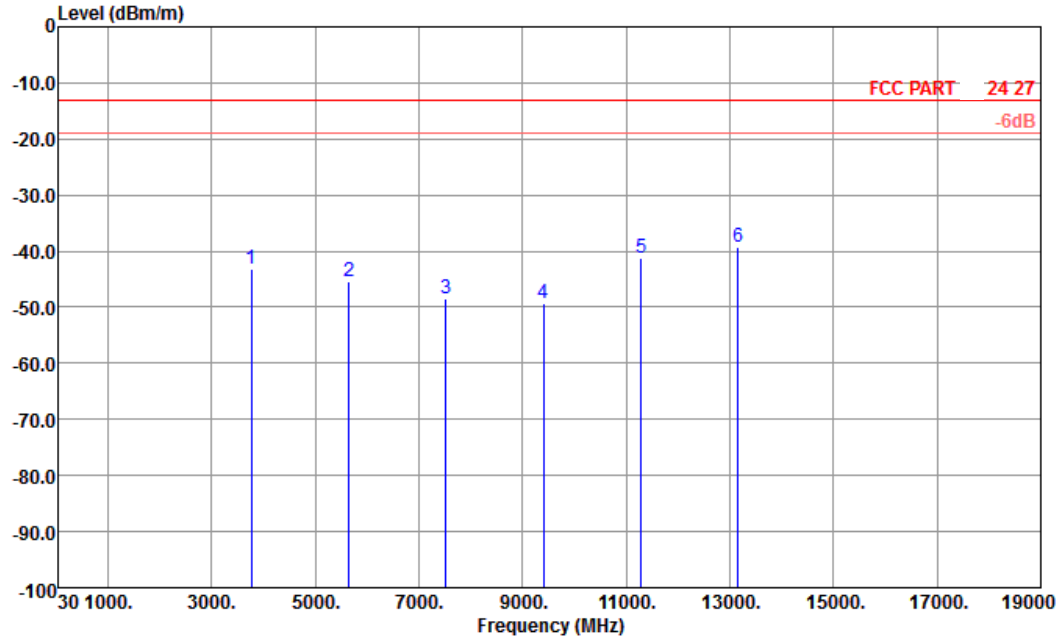


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : E2

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
1422	-55.96	-13	-42.96	-66.59	-58.93	0.88	6.00	V	Pass
2133	-54.41	-13	-41.41	-73.26	-57.02	1.08	5.84	V	Pass
2844	-66.36	-13	-53.36	-78.19	-70.73	1.14	7.66	V	Pass
3555	-53.35	-13	-40.35	-68.57	-58.62	1.37	8.79	V	Pass
4266	-53.81	-13	-40.81	-71.26	-59.95	1.51	9.80	V	Pass
4977	-53.50	-13	-40.50	-71.40	-60.03	1.62	10.30	V	Pass

Band :	LTE Band 2	Temperature :	21~22°C
Test Mode :	1.4MHz, QPSK, RB Size 3, RB Offset 2	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

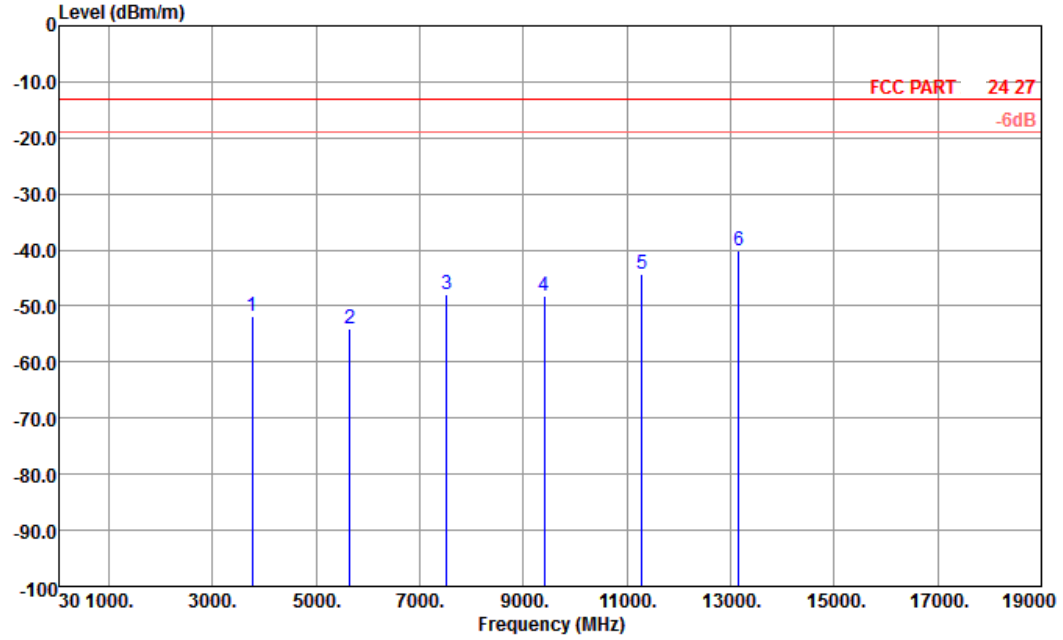


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : E1

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
3760	-43.16	-13	-30.16	-58.85	-49.90	1.28	8.02	H	Pass
5640	-45.50	-13	-32.50	-63.74	-53.92	1.58	10.00	H	Pass
7520	-48.36	-13	-35.36	-70.30	-58.68	1.78	12.10	H	Pass
9400	-49.24	-13	-36.24	-71.36	-60.02	2.22	13.00	H	Pass
11280	-41.29	-13	-28.29	-69.78	-52.14	2.16	13.01	H	Pass
13160	-39.22	-13	-26.22	-69.80	-50.28	2.64	13.70	H	Pass

Band :	LTE Band 2	Temperature :	21~22°C
Test Mode :	1.4MHz, QPSK, RB Size 3, RB Offset 2	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

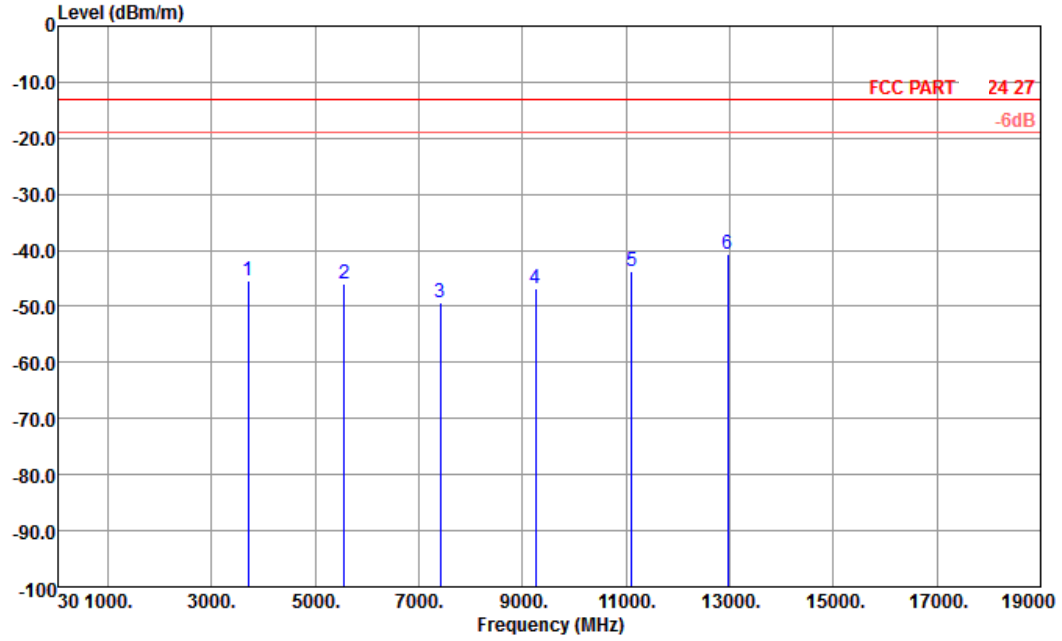


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : E1

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
3760	-51.83	-13	-38.83	-66.86	-58.57	1.28	8.02	V	Pass
5640	-53.98	-13	-40.98	-71.06	-62.40	1.58	10	V	Pass
7520	-47.95	-13	-34.95	-70.2	-58.27	1.78	12.1	V	Pass
9400	-48.06	-13	-35.06	-71.68	-58.84	2.22	13	V	Pass
11280	-44.21	-13	-31.21	-72.8	-55.06	2.16	13.01	V	Pass
13160	-40.05	-13	-27.05	-70.7	-51.11	2.64	13.7	V	Pass

Band :	LTE Band 2	Temperature :	21~22°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 7	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

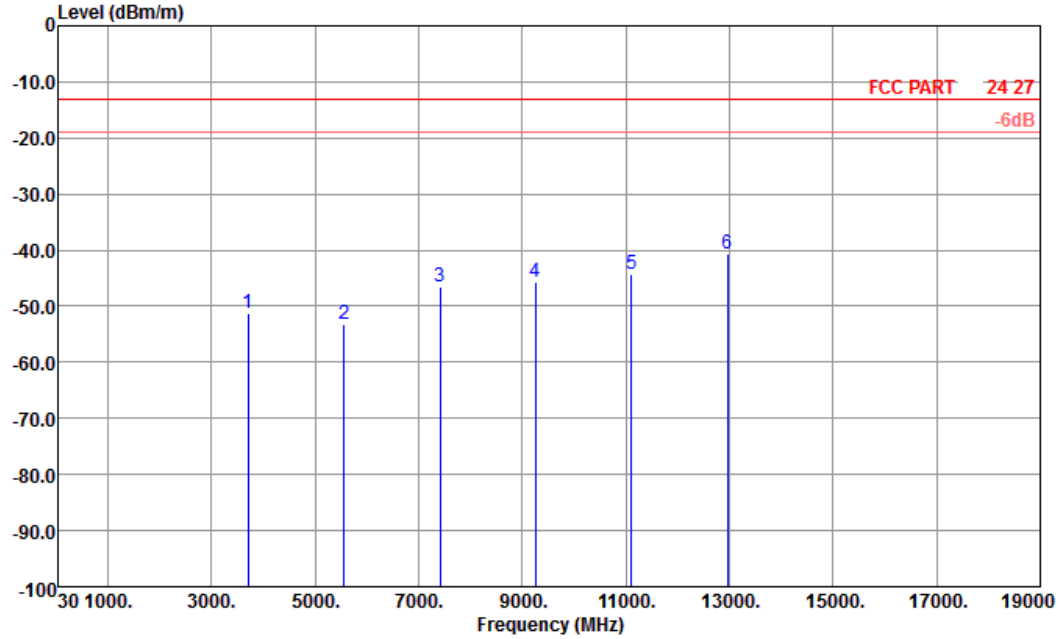


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : E1

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
3703	-45.44	-13	-32.44	-60.29	-52.18	1.28	8.02	H	Pass
5554.5	-46.09	-13	-33.09	-64.08	-54.51	1.58	10.00	H	Pass
7406	-49.29	-13	-36.29	-71.23	-59.61	1.78	12.10	H	Pass
9257.5	-46.81	-13	-33.81	-68.93	-57.59	2.22	13.00	H	Pass
11109	-43.68	-13	-30.68	-72.17	-54.53	2.16	13.01	H	Pass
12960.5	-40.68	-13	-27.68	-71.26	-51.74	2.64	13.70	H	Pass

Band :	LTE Band 2	Temperature :	21~22°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 7	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

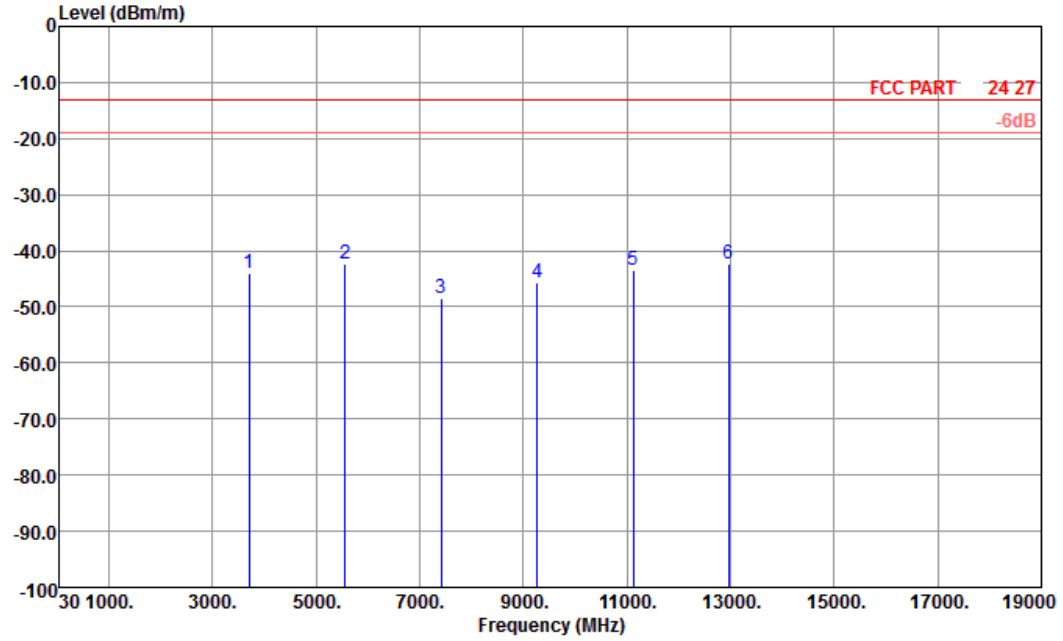


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : E1

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
3703	-51.37	-13	-38.37	-66.4	-58.11	1.28	8.02	V	Pass
5554.5	-53.33	-13	-40.33	-70.41	-61.75	1.58	10	V	Pass
7406	-46.51	-13	-33.51	-68.76	-56.83	1.78	12.1	V	Pass
9257.5	-45.60	-13	-32.60	-69.22	-56.38	2.22	13	V	Pass
11109	-44.20	-13	-31.20	-72.79	-55.05	2.16	13.01	V	Pass
12960.5	-40.61	-13	-27.61	-71.26	-51.67	2.64	13.7	V	Pass

Band :	LTE Band 2	Temperature :	21~22°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 12	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

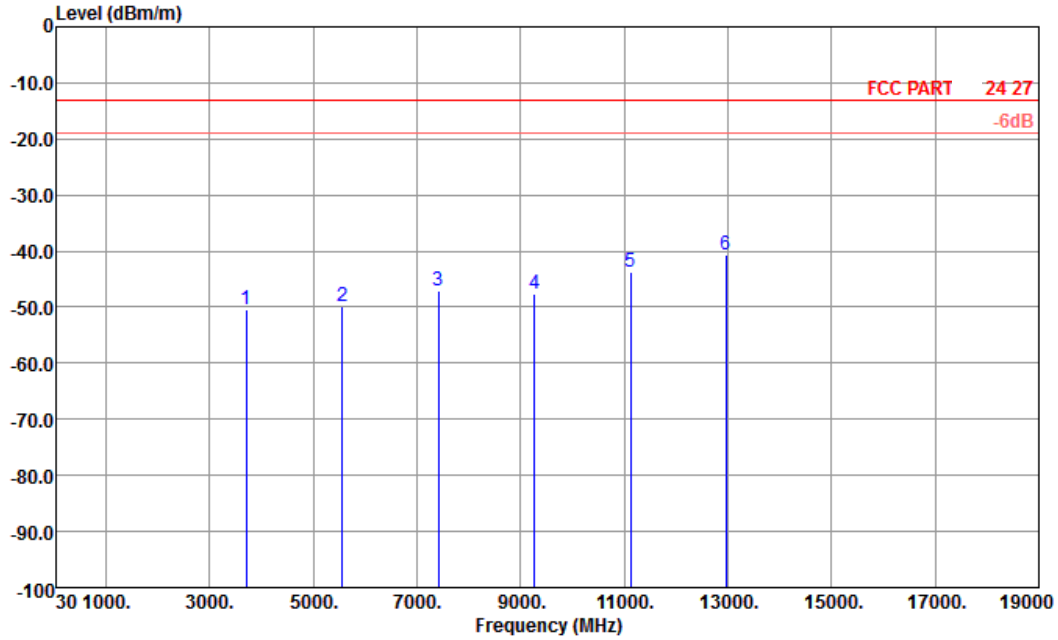


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : E1

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
3705	-44.05	-13	-31.05	-59.46	-50.79	1.28	8.02	H	Pass
5557.5	-42.21	-13	-29.21	-61.41	-50.63	1.58	10.00	H	Pass
7410	-48.47	-13	-35.47	-70.41	-58.79	1.78	12.10	H	Pass
9262.5	-45.82	-13	-32.82	-67.94	-56.60	2.22	13.00	H	Pass
11115	-43.37	-13	-30.37	-71.86	-54.22	2.16	13.01	H	Pass
12967.5	-42.27	-13	-29.27	-72.85	-53.33	2.64	13.70	H	Pass

Band :	LTE Band 2	Temperature :	21~22°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 12	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

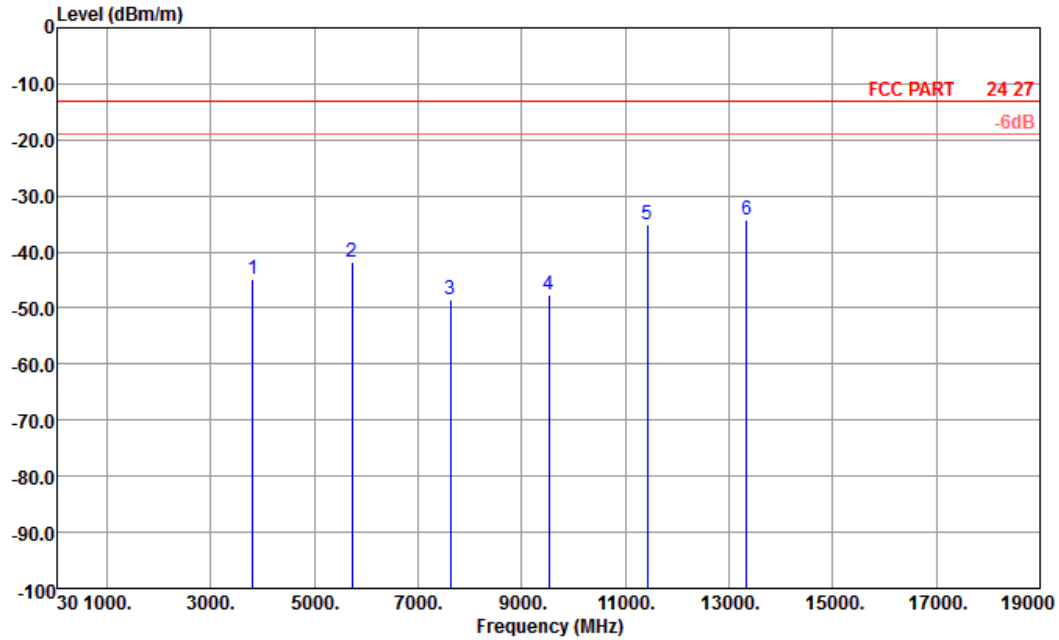


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : E1

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
3705	-50.53	-13	-37.53	-65.56	-57.27	1.28	8.02	V	Pass
5557.5	-49.85	-13	-36.85	-66.93	-58.27	1.58	10	V	Pass
7410	-47.17	-13	-34.17	-69.42	-57.49	1.78	12.1	V	Pass
9262.5	-47.57	-13	-34.57	-71.19	-58.35	2.22	13	V	Pass
11115	-43.68	-13	-30.68	-72.27	-54.53	2.16	13.01	V	Pass
12967.5	-40.64	-13	-27.64	-71.29	-51.70	2.64	13.7	V	Pass

Band :	LTE Band 2	Temperature :	21~22°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 24	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

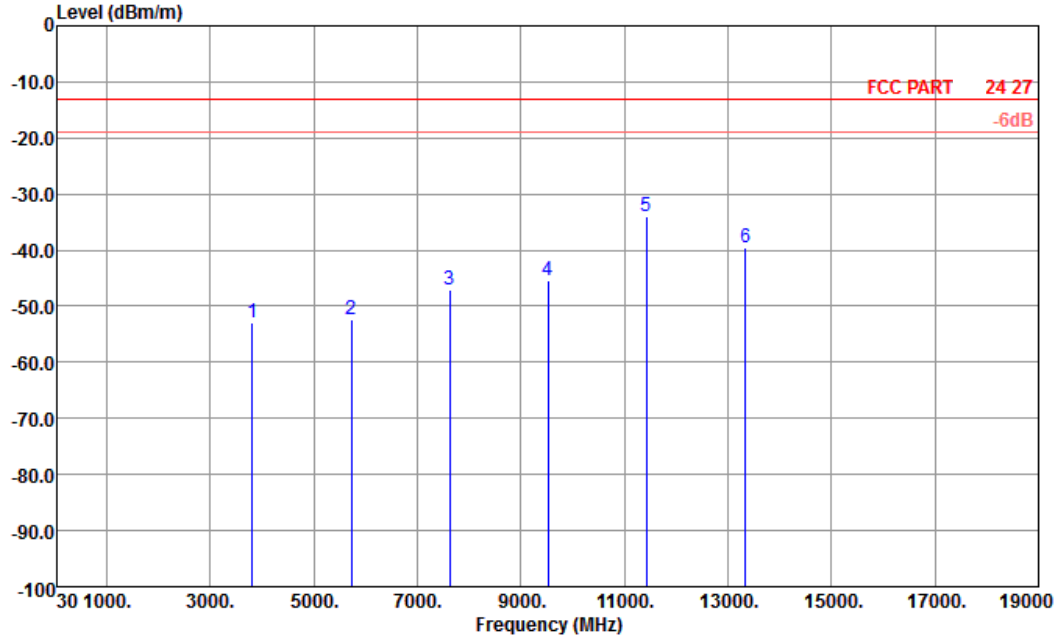


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : E1

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
3810	-44.84	-13	-31.84	-59.87	-51.58	1.28	8.02	H	Pass
5715	-41.74	-13	-28.74	-61.04	-50.16	1.58	10.00	H	Pass
7620	-48.48	-13	-35.48	-70.42	-58.80	1.78	12.10	H	Pass
9525	-47.57	-13	-34.57	-69.69	-58.35	2.22	13.00	H	Pass
11430	-34.97	-13	-21.97	-63.46	-45.82	2.16	13.01	H	Pass
13335	-34.29	-13	-21.29	-65.31	-45.35	2.64	13.70	H	Pass

Band :	LTE Band 2	Temperature :	21~22°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 24	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

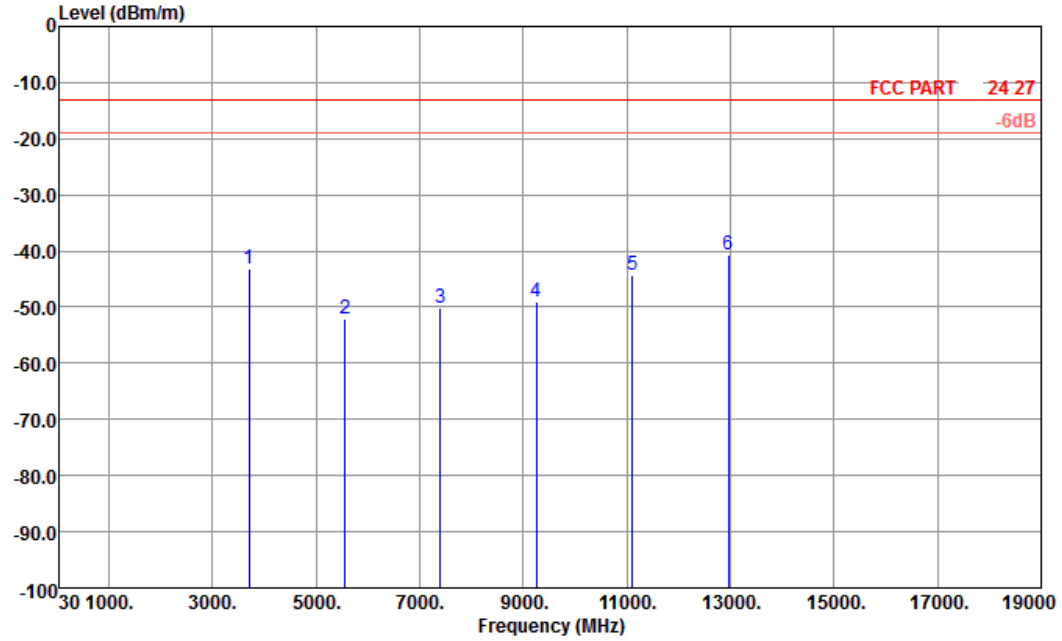


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : E1

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
3810	-52.81	-13	-39.81	-67.84	-59.55	1.28	8.02	V	Pass
5715	-52.36	-13	-39.36	-69.44	-60.78	1.58	10	V	Pass
7620	-47.03	-13	-34.03	-69.28	-57.35	1.78	12.1	V	Pass
9525	-45.34	-13	-32.34	-68.96	-56.12	2.22	13	V	Pass
11430	-33.93	-13	-20.93	-62.52	-44.78	2.16	13.01	V	Pass
13335	-39.51	-13	-26.51	-70.16	-50.57	2.64	13.7	V	Pass

Band :	LTE Band 25	Temperature :	21~22°C
Test Mode :	1.4MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

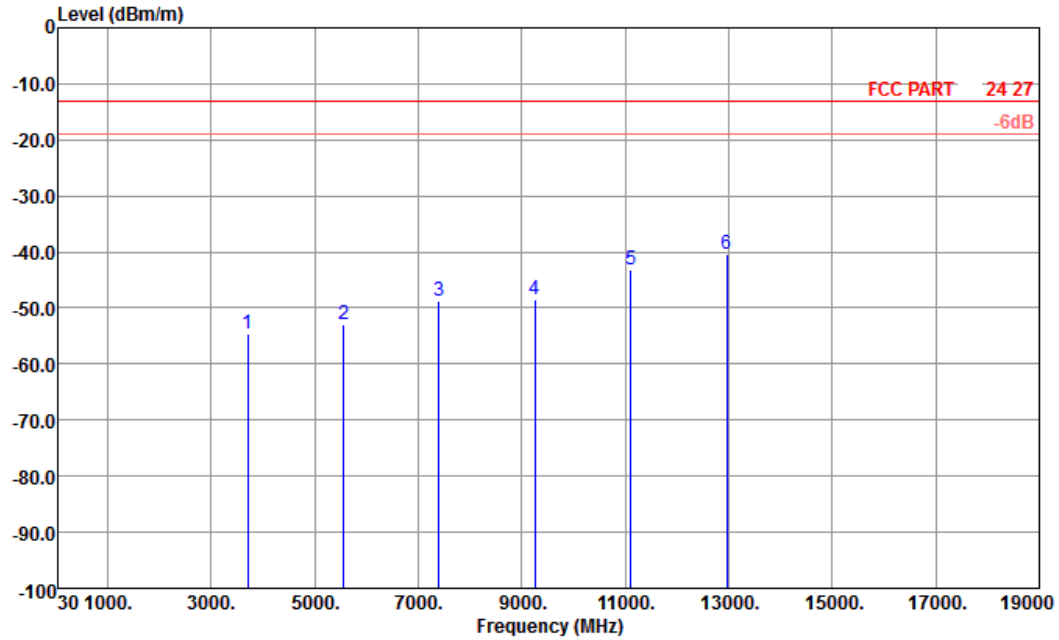


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : E1

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
3701.4	-43.30	-13	-30.30	-58.95	-50.04	1.28	8.02	H	Pass
5552.1	-51.98	-13	-38.98	-69.97	-60.40	1.58	10.00	H	Pass
7402.8	-50.09	-13	-37.09	-72.03	-60.41	1.78	12.10	H	Pass
9253.5	-48.96	-13	-35.96	-71.08	-59.74	2.22	13.00	H	Pass
11104.2	-44.32	-13	-31.32	-72.81	-55.17	2.16	13.01	H	Pass
12954.9	-40.61	-13	-27.61	-71.19	-51.67	2.64	13.70	H	Pass

Band :	LTE Band 25	Temperature :	21~22°C
Test Mode :	1.4MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

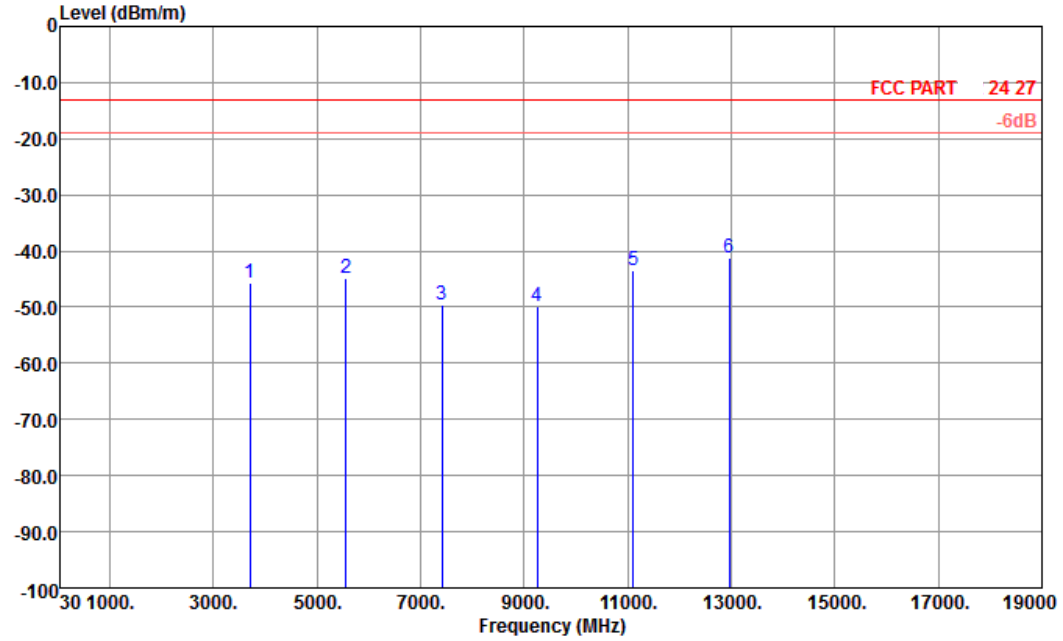


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : E1

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
3701.4	-54.73	-13	-41.73	-69.76	-61.47	1.28	8.02	V	Pass
5552.1	-52.98	-13	-39.98	-70.06	-61.40	1.58	10	V	Pass
7402.8	-48.86	-13	-35.86	-71.11	-59.18	1.78	12.1	V	Pass
9253.5	-48.38	-13	-35.38	-72	-59.16	2.22	13	V	Pass
11104.2	-43.11	-13	-30.11	-71.7	-53.96	2.16	13.01	V	Pass
12954.9	-40.27	-13	-27.27	-70.92	-51.33	2.64	13.7	V	Pass

Band :	LTE Band 25	Temperature :	21~22°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

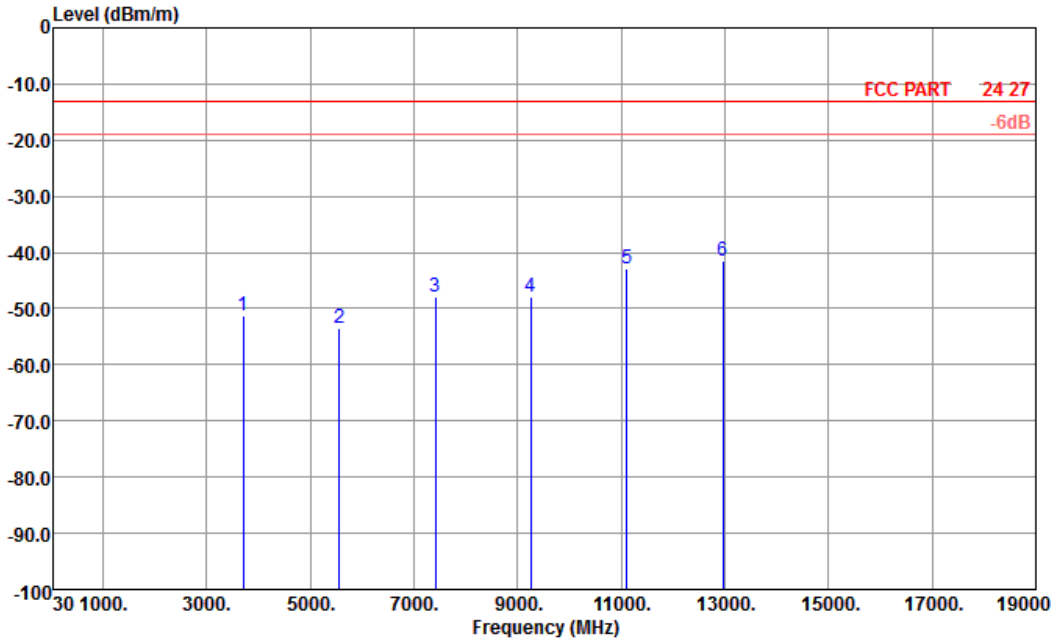


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : E1

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
3703	-45.63	-13	-32.63	-60.44	-52.37	1.28	8.02	H	Pass
5554.5	-44.73	-13	-31.73	-63.34	-53.15	1.58	10.00	H	Pass
7406	-49.67	-13	-36.67	-71.61	-59.99	1.78	12.10	H	Pass
9257.5	-49.76	-13	-36.76	-71.88	-60.54	2.22	13.00	H	Pass
11109	-43.53	-13	-30.53	-72.02	-54.38	2.16	13.01	H	Pass
12960.5	-41.30	-13	-28.30	-71.88	-52.36	2.64	13.70	H	Pass

Band :	LTE Band 25	Temperature :	21~22°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

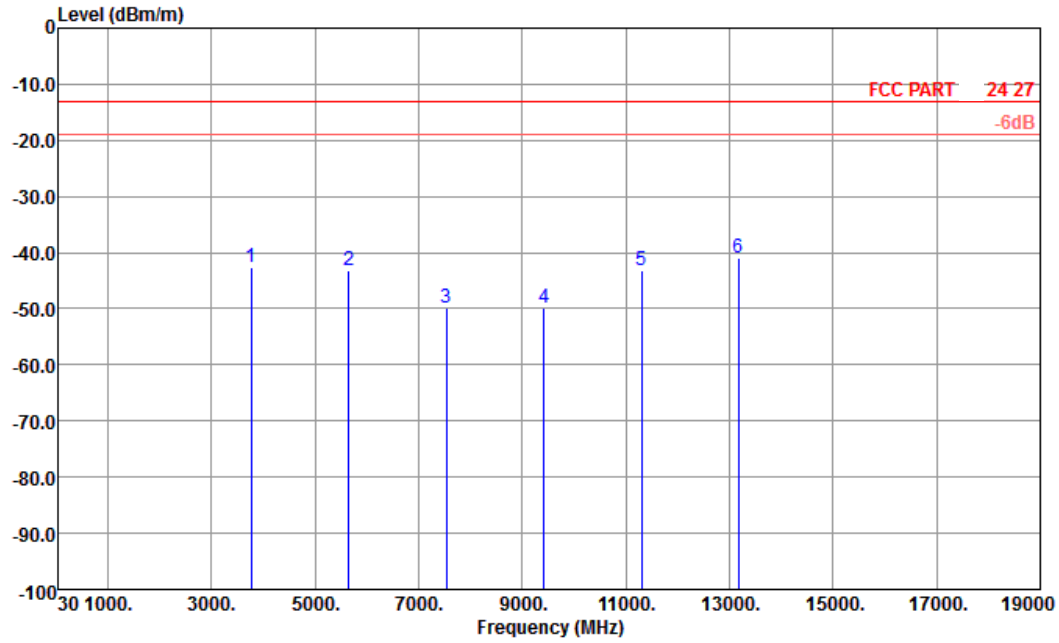


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : E1

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
3703	-51.20	-13	-38.20	-66.23	-57.94	1.28	8.02	V	Pass
5554.5	-53.44	-13	-40.44	-70.52	-61.86	1.58	10	V	Pass
7406	-48.03	-13	-35.03	-70.28	-58.35	1.78	12.1	V	Pass
9257.5	-47.94	-13	-34.94	-71.56	-58.72	2.22	13	V	Pass
11109	-42.77	-13	-29.77	-71.36	-53.62	2.16	13.01	V	Pass
12960.5	-41.38	-13	-28.38	-72.03	-52.44	2.64	13.7	V	Pass

Band :	LTE Band 25	Temperature :	21~22°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

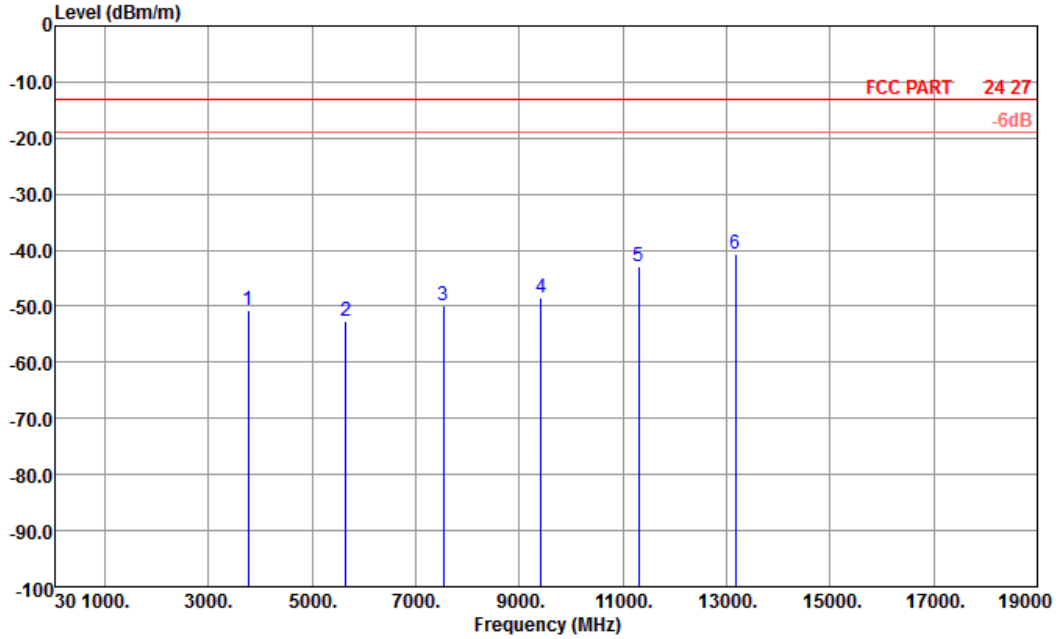


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : E1

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
3765	-42.65	-13	-29.65	-58.42	-49.39	1.28	8.02	H	Pass
5647.5	-43.10	-13	-30.10	-62.06	-51.52	1.58	10.00	H	Pass
7530	-49.80	-13	-36.80	-71.74	-60.12	1.78	12.10	H	Pass
9412.5	-49.80	-13	-36.80	-71.92	-60.58	2.22	13.00	H	Pass
11295	-43.29	-13	-30.29	-71.78	-54.14	2.16	13.01	H	Pass
13177.5	-41.07	-13	-28.07	-71.65	-52.13	2.64	13.70	H	Pass

Band :	LTE Band 25	Temperature :	21~22°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

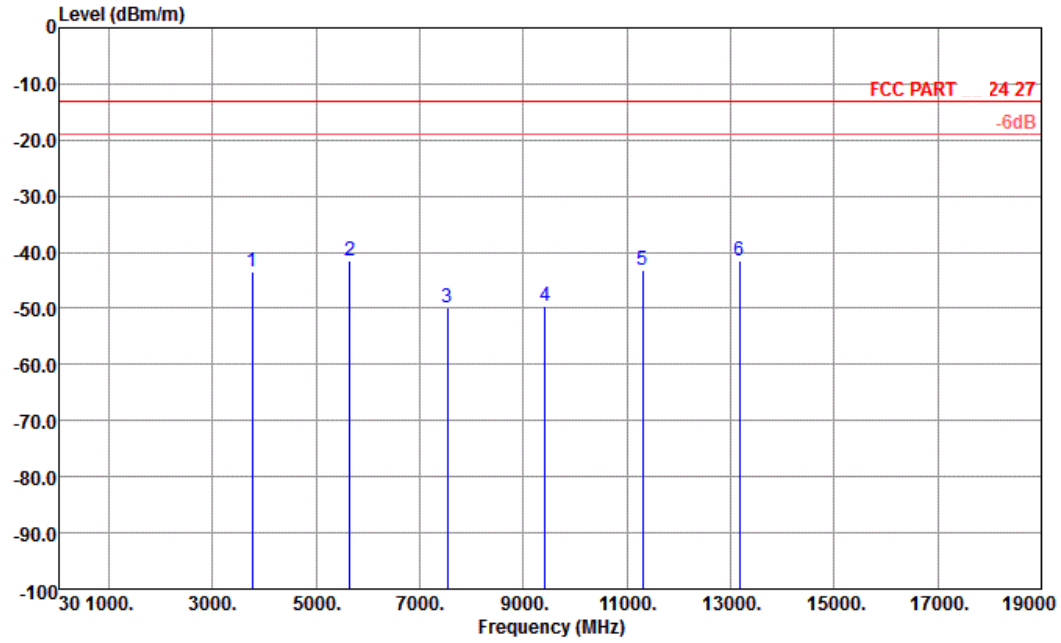


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : E1

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
3765	-50.75	-13	-37.75	-65.78	-57.49	1.28	8.02	V	Pass
5647.5	-52.61	-13	-39.61	-69.69	-61.03	1.58	10	V	Pass
7530	-49.78	-13	-36.78	-72.03	-60.10	1.78	12.1	V	Pass
9412.5	-48.48	-13	-35.48	-72.1	-59.26	2.22	13	V	Pass
11295	-43.00	-13	-30.00	-71.59	-53.85	2.16	13.01	V	Pass
13177.5	-40.70	-13	-27.70	-71.35	-51.76	2.64	13.7	V	Pass

Band :	LTE Band 25	Temperature :	21~22°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

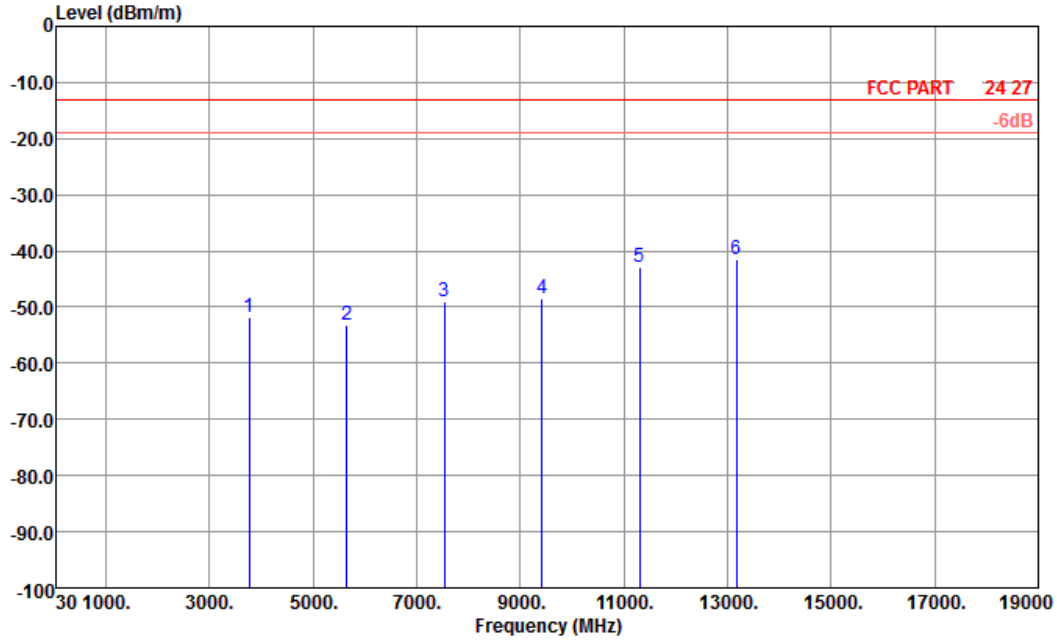


Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 HORIZONTAL

Plane : E1

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
3765	-43.39	-13	-30.39	-59.01	-50.13	1.28	8.02	H	Pass
5647.5	-41.44	-13	-28.44	-60.79	-49.86	1.58	10.00	H	Pass
7530	-49.90	-13	-36.90	-71.84	-60.22	1.78	12.10	H	Pass
9412.5	-49.52	-13	-36.52	-71.64	-60.30	2.22	13.00	H	Pass
11295	-43.14	-13	-30.14	-71.63	-53.99	2.16	13.01	H	Pass
13177.5	-41.56	-13	-28.56	-72.14	-52.62	2.64	13.70	H	Pass

Band :	LTE Band 25	Temperature :	21~22°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
Condition : FCC PART 24 27 3m HF EIRP FACTOR-09020 VERTICAL

Plane : E1

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
3765	-51.78	-13	-38.78	-66.81	-58.52	1.28	8.02	V	Pass
5647.5	-53.20	-13	-40.20	-70.28	-61.62	1.58	10	V	Pass
7530	-48.89	-13	-35.89	-71.14	-59.21	1.78	12.1	V	Pass
9412.5	-48.51	-13	-35.51	-72.13	-59.29	2.22	13	V	Pass
11295	-43.00	-13	-30.00	-71.59	-53.85	2.16	13.01	V	Pass
13177.5	-41.60	-13	-28.60	-72.25	-52.66	2.64	13.7	V	Pass

3.6 Frequency Stability Measurement

3.6.1 Description of Frequency Stability Measurement

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency band. For equipment authorization purposes, this is a reporting requirement only.

3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

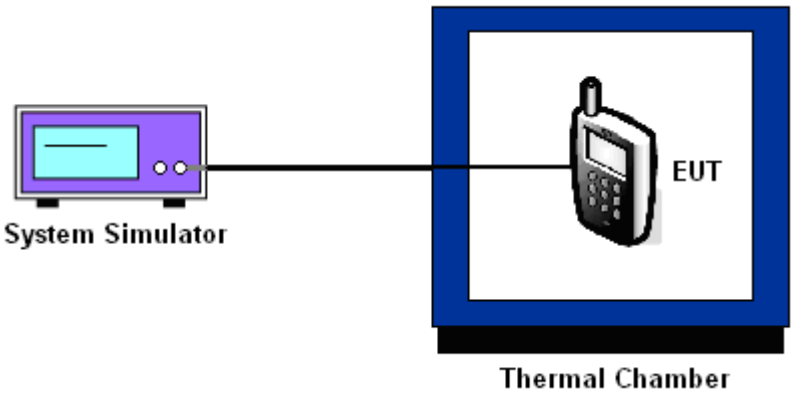
3.6.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°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°C step up to 50°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°C, the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

3.6.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at 25±5 °C and connected with the system simulator.
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

3.6.5 Test Setup



3.6.6 Test Result of Temperature Variation

Band :	LTE Band 4	Limit (ppm) :	2.5

Temperature (°C)	1.4MHz		3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	10.0	0.006	9.0	0.005	PASS
-20	7.0	0.004	7.0	0.004	
-10	8.0	0.005	6.0	0.003	
0	9.0	0.005	8.0	0.005	
10	7.0	0.004	9.0	0.005	
20	7.0	0.004	-5.0	-0.003	
30	-6.0	-0.003	8.0	0.005	
40	9.0	0.005	5.0	0.003	
45	8.0	0.005	9.0	0.005	
50	10.0	0.006	7.0	0.004	

Band :	LTE Band 4	Limit (ppm) :	2.5

Temperature (°C)	5MHz		10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	11.0	0.006	10.0	0.006	PASS
-20	10.0	0.006	9.0	0.005	
-10	9.0	0.005	11.0	0.006	
0	-9.0	-0.005	9.0	0.005	
10	7.0	0.004	8.0	0.005	
20	5.0	0.003	4.0	0.002	
30	-14.0	-0.008	9.0	0.005	
40	9.0	0.005	7.0	0.004	
45	11.0	0.006	10.0	0.006	
50	7.0	0.004	8.0	0.005	

Band :	LTE Band 12	Limit (ppm) :	2.5

Temperature (°C)	1.4MHz		3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-3.0	-0.004	-3.0	-0.004	PASS
-20	3.0	0.004	-3.0	-0.004	
-10	-3.0	-0.004	-5.0	-0.007	
0	3.0	0.004	3.0	0.004	
10	3.0	0.004	-3.0	-0.004	
20	4.0	0.006	-5.0	-0.007	
30	-3.0	-0.004	-4.0	-0.006	
40	-4.0	-0.006	-4.0	-0.006	
45	4.0	0.006	3.0	0.004	
50	-4.0	-0.006	-4.0	-0.006	

Band :	LTE Band 12	Limit (ppm) :	2.5

Temperature (°C)	5MHz		10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	3.0	0.004	-4.0	-0.006	PASS
-20	-3.0	-0.004	-2.0	-0.003	
-10	4.0	0.006	2.0	0.003	
0	-4.0	-0.006	3.0	0.004	
10	-3.0	-0.004	-3.0	-0.004	
20	-4.0	-0.006	-2.0	-0.003	
30	-3.0	-0.004	-3.0	-0.004	
40	-3.0	-0.004	3.0	0.004	
45	-4.0	-0.006	-3.0	-0.004	
50	-3.0	-0.004	-3.0	-0.004	

Band :	LTE Band 2	Limit (ppm) :	2.5

Temperature (°C)	1.4MHz		3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-14.0	-0.007	-13.0	-0.007	PASS
-20	15.0	0.008	-16.0	-0.009	
-10	-13.0	-0.007	-11.0	-0.006	
0	11.0	0.006	11.0	0.006	
10	14.0	0.007	9.0	0.005	
20	8.0	0.004	8.0	0.004	
30	-14.0	-0.007	10.0	0.005	
40	-14.0	-0.007	-16.0	-0.009	
45	15.0	0.008	11.0	0.006	
50	-16.0	-0.009	-16.0	-0.009	

Band :	LTE Band 2	Limit (ppm) :	2.5

Temperature (°C)	5MHz		10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-12.0	-0.006	-14.0	-0.007	PASS
-20	-9.0	-0.005	12.0	0.006	
-10	10.0	0.005	13.0	0.007	
0	-10.0	-0.005	-12.0	-0.006	
10	12.0	0.006	-11.0	-0.006	
20	-7.0	-0.004	-13.0	-0.007	
30	-10.0	-0.005	-13.0	-0.007	
40	-13.0	-0.007	-16.0	-0.009	
45	-10.0	-0.005	-12.0	-0.006	
50	16.0	0.009	9.0	0.005	

Band :	LTE Band 25	Limit (ppm) :	2.5

Temperature (°C)	1.4MHz		3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-15.0	-0.008	-14.0	-0.007	PASS
-20	16.0	0.008	-15.0	-0.008	
-10	-14.0	-0.007	-12.0	-0.006	
0	12.0	0.006	12.0	0.006	
10	13.0	0.007	8.0	0.004	
20	9.0	0.005	9.0	0.005	
30	-15.0	-0.008	9.0	0.005	
40	-13.0	-0.007	-15.0	-0.008	
45	14.0	0.007	10.0	0.005	
50	-15.0	-0.008	-15.0	-0.008	

Band :	LTE Band 25	Limit (ppm) :	2.5

Temperature (°C)	5MHz		10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-13.0	-0.007	-15.0	-0.008	PASS
-20	-8.0	-0.004	13.0	0.007	
-10	9.0	0.005	12.0	0.006	
0	-9.0	-0.005	-11.0	-0.006	
10	11.0	0.006	-12.0	-0.006	
20	-6.0	-0.003	-12.0	-0.006	
30	-11.0	-0.006	-14.0	-0.007	
40	-12.0	-0.006	-15.0	-0.008	
45	-11.0	-0.006	-13.0	-0.007	
50	17.0	0.009	10.0	0.005	

3.6.7 Test Result of Voltage Variation

Band	Band Width & Channel	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 4	1.4MHz	3.6	-9.0	-0.005	2.5	PASS
		3.7	5.0	0.003		
		4.2	8.0	0.005		
	3MHz	3.6	7.0	0.004		
		3.7	7.0	0.004		
		4.2	8.0	0.005		
	5MHz	3.6	-6.0	-0.003		
		3.7	-9.0	-0.005		
		4.2	7.0	0.004		
	10MHz	3.6	7.0	0.004		
		3.7	8.0	0.005		
		4.2	8.0	0.005		

Band	Band Width & Channel	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 12	1.4MHz	3.6	-5.0	-0.007	2.5	PASS
		3.7	-4.0	-0.006		
		4.2	-4.0	-0.006		
	3MHz	3.6	-4.0	-0.006		
		3.7	-5.0	-0.007		
		4.2	-6.0	-0.008		
	5MHz	3.6	-4.0	-0.006		
		3.7	-5.0	-0.007		
		4.2	-3.0	-0.004		
	10MHz	3.6	2.0	0.003		
		3.7	-3.0	-0.004		
		4.2	-5.0	-0.007		

Band	Band Width & Channel	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 2	1.4MHz	3.6	-10.0	-0.005	2.5	PASS
		3.7	8.0	0.004		
		4.2	-16.0	-0.009		
	3MHz	3.6	-15.0	-0.008		
		3.7	15.0	0.008		
		4.2	-11.0	-0.006		
	5MHz	3.6	15.0	0.008		
		3.7	14.0	0.007		
		4.2	-14.0	-0.007		
	10MHz	3.6	17.0	0.009		
		3.7	-10.0	-0.005		
		4.2	-9.0	-0.005		

Band	Band Width & Channel	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 25	1.4MHz	3.6	-9.0	-0.005	2.5	PASS
		3.7	7.0	0.004		
		4.2	-15.0	-0.008		
	3MHz	3.6	-16.0	-0.008		
		3.7	16.0	0.008		
		4.2	-12.0	-0.006		
	5MHz	3.6	16.0	0.008		
		3.7	13.0	0.007		
		4.2	-13.0	-0.007		
	10MHz	3.6	16.0	0.008		
		3.7	-9.0	-0.005		
		4.2	-10.0	-0.005		

Remark:

1. Normal Voltage = 3.7V.
2. Battery End Point (BEP) = 3.6 V.

3.6.8 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 29, 2012	Jan. 20, 2013 ~ Jan. 25, 2013	Dec. 28, 2013	Conducted (TH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 22, 2012	Jan. 20, 2013 ~ Jan. 25, 2013	Aug. 21, 2013	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 29, 2012	Jan. 20, 2013 ~ Jan. 25, 2013	Dec. 28, 2013	Conducted (TH01-KS)
LTE Base Station	Anritsu	MT8820C	6201074235	LTE_FDD full band	Dec. 29, 2012	Jan. 20, 2013 ~ Jan. 25, 2013	Dec. 28, 2013	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	Jan. 24, 2013 ~ Jan. 28, 2013	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	100400	9kHz~30GHz	Jun. 01, 2012	Jan. 24, 2013 ~ Jan. 28, 2013	May 31, 2013	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2012	Jan. 24, 2013 ~ Jan. 28, 2013	Dec. 06, 2013	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2013	Jan. 24, 2013 ~ Jan. 28, 2013	Jan. 05, 2014	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	Jun. 01, 2012	Jan. 24, 2013 ~ Jan. 28, 2013	May 31, 2013	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 29, 2012	Jan. 24, 2013 ~ Jan. 28, 2013	Dec. 28, 2013	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	9170249	15GHz~40GHz	Nov. 23, 2012	Jan. 24, 2013 ~ Jan. 28, 2013	Nov. 22, 2013	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/001	9KHz ~ 30MHz	Jul. 03, 2012	Jan. 24, 2013 ~ Jan. 28, 2013	Jul. 02, 2014	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz-40GHz	Dec. 29, 2012	Jan. 24, 2013 ~ Jan. 28, 2013	Dec. 28, 2013	Radiation (03CH01-KS)
LTE Base Station	Anritsu	MT8820C	6201074235	LTE_FDD full band	Dec. 29, 2012	Jan. 24, 2013 ~ Jan. 28, 2013	Dec. 28, 2013	Conducted (TH01-KS)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Oct. 06, 2012	Jan. 23, 2013 ~ Jan. 25, 2013	Oct. 05, 2013	Radiation (03CH07-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9KHz ~ 30GHz	Nov. 30, 2012	Jan. 23, 2013 ~ Jan. 25, 2013	Nov. 29, 2013	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 22, 2012	Jan. 23, 2013 ~ Jan. 25, 2013	Aug. 21, 2013	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz ~ 26.5GHz	Dec. 01, 2012	Jan. 23, 2013 ~ Jan. 25, 2013	Nov. 30, 2013	Radiation (03CH07-HY)
Pre Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	159088	1GHz ~ 18GHz	Mar. 10, 2012	Jan. 23, 2013 ~ Jan. 25, 2013	Mar. 09, 2013	Radiation (03CH07-HY)
Pre Amplifier	COM-POWER	PA-103A	161241	10-1000MHz. 32dB.GAIN	Feb. 27, 2012	Jan. 23, 2013 ~ Jan. 25, 2013	Feb. 26, 2013	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Sep. 03, 2012	Jan. 23, 2013 ~ Jan. 25, 2013	Sep. 02, 2013	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz ~ 40GHz	Sep. 28, 2012	Jan. 23, 2013 ~ Jan. 25, 2013	Sep. 27, 2013	Radiation (03CH07-HY)
LTE Base Station	R&S	CMW500	123471	70MHz~3.3GHz	May 29, 2012	Jan. 23, 2013 ~ Jan. 25, 2013	May 28, 2013	Radiation (03CH07-HY)

4 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**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95%(U = 2Uc(y))	**4.72**

Appendix A. Photographs of EUT

Please refer to Sporton report number EP311602 as below.