FCC/IC RF Test Report

APPLICANT	:	**Sony Mobile Communications Inc.**
EQUIPMENT	:	**Smart phone**
BRAND NAME	:	**SONY**
TYPE NAME	:	**PM-0890-BV**
FCC ID	:	**PY7-PM0890**
IC	:	**4170B-PM0890**
STANDARD	:	**47 CFR Part 2, 22(H), 24(E), 27**
		IC RSS-130 issue 1
		IC RSS-132 issue 3
		IC RSS-133 issue 6
		IC RSS-139 issue 2
		IC RSS-199 issue 2
CLASSIFICATION	:	**PCS Licensed Transmitter Held to Ear (PCE)**

The product was received on Apr. 30, 2015 and completely tested on May 18, 2015. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and the testing has shown the tested sample to be in 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory
1190

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

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APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG543002B	Rev. 01	Initial issue of report	Jun. 30, 2015

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.4	§2.1046	RSS-Gen(6.12) RSS-130(6.12) RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.4) RSS-199 (4.4)	Conducted Output Power	Reporting Only	PASS	-
3.5	§24.232(d)	RSS-130(4.4) RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	RSS-GEN(6.6) RSS-132 (3.1) RSS-133 (3.1) RSS-130(3.1) RSS-139 (3.1) RSS-199 (4.2)	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(c)(4) §27.53(f) §27.53(g) §27.53(m)(4)	RSS-132 (5.5) RSS-133 (6.5.1) RSS-130(4.6) RSS-139 (6.5) RSS-199 (4.5)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 7)	< 43+10log10(P[Watts])	PASS	-

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g)	RSS-132 (5.5) RSS-133 (6.5.1) RSS-130(4.6) RSS-139 (6.5)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	RSS-199 (4.5)	Conducted Spurious Emission (Band 7)	< 55+10log$_{10}$(P[Watts])		
3.9	§2.1055 §22.355 §24.235 §27.54	RSS-GEN(6.11) RSS-132(5.3) RSS-133(6.3) RSS-130(4.3) RSS-139 (6.3) RSS-199 (4.3)	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22 Within Authorized Band	PASS	-
4.4	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	N/A	Effective Radiated Power (Band 12) (Band 13) (Band 17)	ERP < 3 Watt		
	N/A	RSS-130(4.4)	Equivalent Isotropic Radiated Power (Band 12) (Band 13) (Band 17)	EIRP < 5 Watt		
	§24.232(c) §27.50(h)(2)	RSS-133 (6.4) SRSP-510(5.1.2) RSS-199 (4.4)	Equivalent Isotropic Radiated Power (Band 2) (Band 7)	EIRP < 2Watt		
	§27.50(d)(4)	RSS-139 (6.4) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt		

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
4.5	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5.1) RSS-130(4.6) RSS-139 (6.5)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 8.66 dB at 12780.000 MHz
	§2.1053 §27.53(m)(4)	RSS-199 (4.5)	Radiated Spurious Emission (Band 7)	< 55+10log$_{10}$(P[Watts])		

1 General Description

1.1 Applicant

Sony Mobile Communications Inc.
Nya Vattentornet 22188 Lund/Sweden

1.2 Manufacturer

Arima Communications Corp.
6F, No. 866, Jhongjheng Rd., Jhonghe Dist., New Taipei City 23586, Taiwan

1.3 Product Feature of Equipment Under Test

The Equipment Under Test (hereafter called: EUT) is smart phone supporting, GSM/WCDMA/LTE, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, Bluetooth with FM Receiver, NFC, and GPS features, and below is details of information.

Product Feature	
Equipment	Smart phone
Brand Name	SONY
Type Name	PM-0890-BV
FCC ID	PY7-PM0890
IC	4170B-PM0890
GSM Operating Band(s)	GSM 850/900/1800/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 12 , EGPRS Class 12
WCDMA Operating Band(s)	FDD Band I / II / IV / V / VIII
WCDMA Rel. Version	Rel. 8
LTE Operating Band(s)	FDD Band II / IV / V / VII / XII / XIII / XVII / XXVIII
LTE Rel. Version	Rel. 8
Wi-Fi Specification	802.11a/b/g/n (HT20/HT40)
Bluetooth Version	v3.0+EDR / v4.0-LE
NFC Specification	ISO14443A / ISO14443B / Felica
Power Supply	Battery / AC Adapter / Car Charger

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

1.4 Details of Tested Sample (EUT) Information

Product Specification subjective to this standard	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 698.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 2 : 22.44 dBm LTE Band 4 : 22.35 dBm LTE Band 5 : 23.12 dBm LTE Band 7 : 21.97 dBm LTE Band 12 : 22.57 dBm LTE Band 13 : 23.00 dBm LTE Band 17 : 23.05 dBm
Type of Modulation	QPSK / 16QAM

EUT Information List				
IMEI	HW Version	SW Version	S/N	Performed Test Item
004402454681614	A	29.0.A.0.76	WUJ01HYHXN	Conducted Measurement Radiated Spurious Emission ERP /EIRP Test

Accessory List	
AC Adapter	Model No. : EP800
	Type No. : CAA-0002016-US B
	S/N : 3113W 45 108550
Battery	Model No. : LIS1579ERPC
Earphone 1	Model No. : MH410c
	Type No. : AG-1100
	S/N : 14341EB00068DB2
USB Cable	Model No. : EC450
	Type No. : AI-0700
	S/N : 134912D70008842

Note:

1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test.
3. For other wireless features of this EUT, test report will be issued separately.

1.5 Modification of EUT

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

1.6 Emission Designator

- **Below table for FCC**

LTE Band 2	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1M10G7D	-	0.1393	1M10W7D	-	0.1130
3	2M73G7D	-	0.1380	2M73W7D	-	0.1099
5	4M51G7D	-	0.1403	4M51W7D	-	0.1109
10	9M09G7D	0.0095	0.1361	9M05W7D	-	0.1091
15	13M5G7D	-	0.1288	13M5W7D	-	0.1038
20	18M4G7D	-	0.1288	18M5W7D	-	0.1028
LTE Band 4	**QPSK**			**16QAM**		
BW(MHz)	**Emission Designator (99%OBW)**	**Frequency Tolerance (ppm)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Frequency Tolerance (ppm)**	**Maximum EIRP(W)**
1.4	1M09G7D	-	0.1079	1M10W7D	-	0.0931
3	2M73G7D	-	0.1069	2M73W7D	-	0.0916
5	4M51G7D	-	0.1086	4M51W7D	-	0.0938
10	9M07G7D	0.0103	0.1096	9M03W7D	-	0.0927
15	13M5G7D	-	0.1086	13M5W7D	-	0.0906
20	18M5G7D	-	0.1104	18M5W7D	-	0.0918
LTE Band 5	**QPSK**			**16QAM**		
BW(MHz)	**Emission Designator (99%OBW)**	**Frequency Tolerance (ppm)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Frequency Tolerance (ppm)**	**Maximum ERP(W)**
1.4	1M09G7D	-	0.0561	1M10W7D	-	0.0447
3	2M73G7D	-	0.0524	2M73W7D	-	0.0425
5	4M52G7D	-	0.0543	4M51W7D	-	0.0435
10	9M09G7D	0.0126	0.0541	9M07W7D	-	0.0422

LTE Band 7	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	4M53G7D	-	0.1629	4M51W7D	-	0.1396
10	9M11G7D	0.0088	0.1603	9M05W7D	-	0.1393
15	13M5G7D	-	0.1778	13M5W7D	-	0.1479
20	18M5G7D	-	0.1782	18M5W7D	-	0.1545
LTE Band 12	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	1M09G7D	-	0.0463	1M10W7D	-	0.0353
3	2M72G7D	-	0.0425	2M73W7D	-	0.0368
5	4M52G7D	-	0.0431	4M51W7D	-	0.0371
10	9M07G7D	0.0146	0.0762	9M03W7D	-	0.0373
LTE Band 13	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	4M52G7D	-	0.0465	4M52W7D	-	0.0444
10	9M05G7D	0.0026	0.0453	9M03W7D	-	0.0416
LTE Band 17	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	4M52G7D	-	0.0432	4M51W7D	-	0.0372
10	9M11G7D	0.0135	0.0411	9M05W7D	-	0.0366

- **Below table for IC**

LTE Band 7	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	4M53G7D	-	0.3532	4M51W7D	-	0.2897
10	9M11G7D	0.0088	0.3475	9M05W7D	-	0.2897
15	13M5G7D	-	0.3639	13M5W7D	-	0.2972
20	18M5G7D	-	0.3639	18M5W7D	-	0.2951
LTE Band 12	**QPSK**			**16QAM**		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1M09G7D	-	0.0760	1M10W7D	-	0.0579
3	2M72G7D	-	0.0697	2M73W7D	-	0.0604
5	4M52G7D	-	0.0706	4M51W7D	-	0.0608
10	9M07G7D	0.0146	0.1250	9M03W7D	-	0.0612
LTE Band 13	**QPSK**			**16QAM**		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	4M52G7D	-	0.0762	4M52W7D	-	0.0728
10	9M05G7D	0.0026	0.0743	9M03W7D	-	0.0682
LTE Band 17	**QPSK**			**16QAM**		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	4M52G7D	-	0.0708	4M51W7D	-	0.0611
10	9M11G7D	0.0135	0.0675	9M05W7D	-	0.0600

1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	TH05-HY	

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-0855	
Test Site No.	**Sporton Site No.**	**IC Registration No.**
	03CH10-HY	4086H-1

1.8 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- IC RSS-130 Issue1
- IC RSS-132 Issue 3
- IC RSS-133 Issue 6
- IC RSS-139 Issue 2
- IC RSS-199 Issue 2
- IC RSS-Gen Issue 4

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

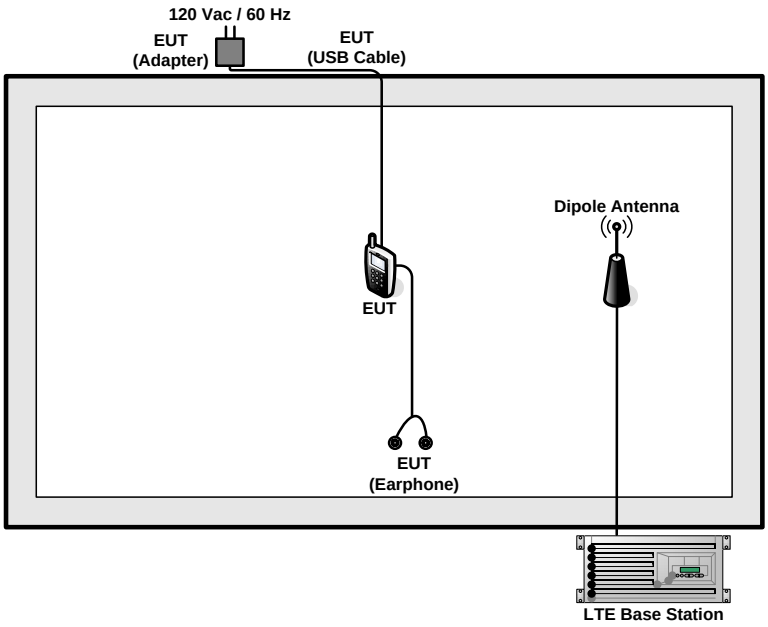
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	2						v	v	v	v		v	v	v	v
	4						v	v	v	v		v	v	v	v
	5				v	-	-	v	v	v		v	v	v	v
	7	-	-				v	v	v	v		v	v	v	v
	12				v	-	-	v	v	v		v	v	v	v
	13	-	-		v	-	-	v	v	v		v	v	v	v
	17	-	-		v	-	-	v	v	v		v	v	v	v
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v			v	v	v	v
	4	v	v	v	v	v	v	v	v			v	v	v	v
	5	v	v	v	v	-	-	v	v			v	v	v	v
	7	-	-	v	v	v	v	v	v			v	v	v	v
	12	v	v	v	v	-	-	v	v			v	v	v	v
	13	-	-	v	v	-	-	v	v			v	v	v	v
	17	-	-	v	v	-	-	v	v			v	v	v	v

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Conducted Band Edge	2	v	v	v	v	v	v	v	v	v		v	v		v
	4	v	v	v	v	v	v	v	v	v		v	v		v
	5	v	v	v	v	-	-	v	v	v		v	v		v
	7	-	-	v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v		v	v		v
	17	-	-	v	v	-	-	v	v	v		v	v		v

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v			v	v	v
Frequency Stability	2				v			v				v		v	
	4				v			v				v		v	
	5				v	-	-	v				v		v	
	7	-	-		v			v				v		v	
	12				v	-	-	v				v		v	
	13	-	-		v	-	-	v				v		v	
	17	-	-		v	-	-	v				v		v	
E.R.P./ E.I.R.P.	2	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	v	v	v	v	v			v	v	v
	13	-	-	v	v	v	v	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v			v	v	v
Radiated Spurious Emission	2	v	v	v	v	v	v	v		v			v	v	v
	4	v	v	v	v	v	v	v		v			v	v	v
	5	v	v	v	v	-	-	v		v			v	v	v
	7	-	-	v	v	v	v	v		v			v	v	v
	12	v	v	v	v	-	-	v		v			v	v	v
	13	-	-	v	v	-	-	v		v			v	v	v
	17	-	-	v	v	-	-	v		v			v	v	v

Note	1. The mark "γ " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

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

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between 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 attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

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

= 4.2 + 10 = 14.2 (dB)

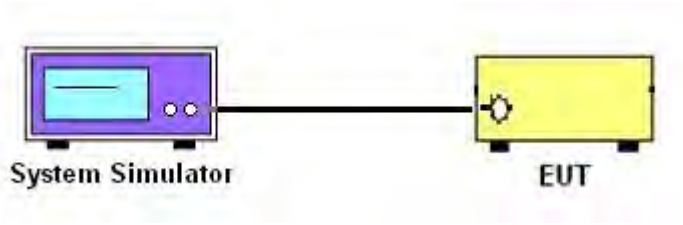
3 Conducted Test Items

3.1 Measuring Instruments

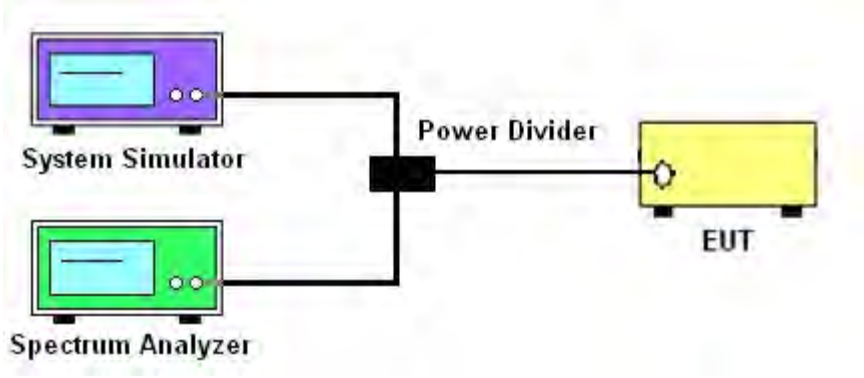
See list of measuring instruments of this test report.

3.2 Test Setup

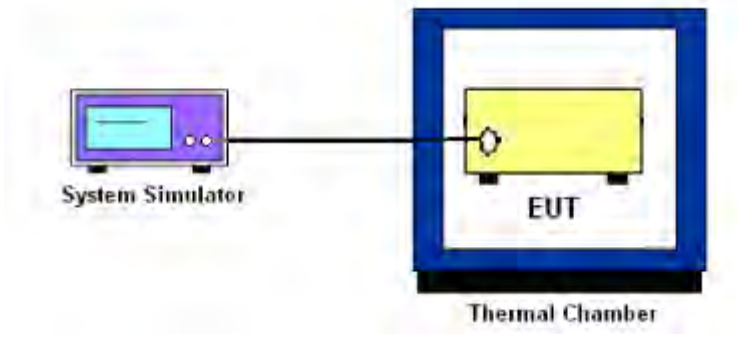
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power

3.4.1 Description of the Conducted Output Power Measurement

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 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. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a) and RSS – 132 for Band 5

For operations in the 824 – 849 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a) and RSS – 133 for Band 2

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c) and RSS – 130 for Band 13

For operations in the 776-788 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least 65 + 10 log10 p(watts), dB, for mobile and portable equipment.

27.53 (g) and RSS – 130 for Band 12,17

For operations in the 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h) and RSS – 139 for Band 4

For operations in the 1710 – 1755 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(m)(4) and RSS-199 for Band 7

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.7.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Set spectrum analyzer with RMS detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 7:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.
9. For Band 7
   The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 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.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

3.9.4 Test Procedures for Frequency Stability (IC)

1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The EUT was operated at the lowest and highest channel
4. Using RBW= 1% OBW and displaying line = -13dBm.
5. The frequency at these points shall be recorded as f_L and f_H respectively.
6. Calculate frequency stability within the 698.7 ~ 715.3 MHz, 779.5 ~ 784.5 MHz, and 706.5 ~ 713.5 MHz

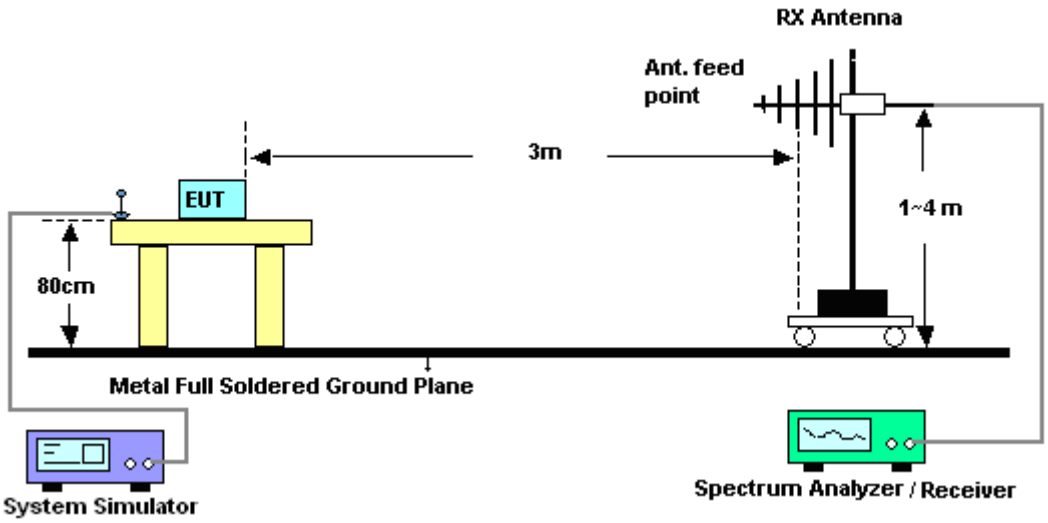
4 Radiated Test Items

4.1 Measuring Instruments

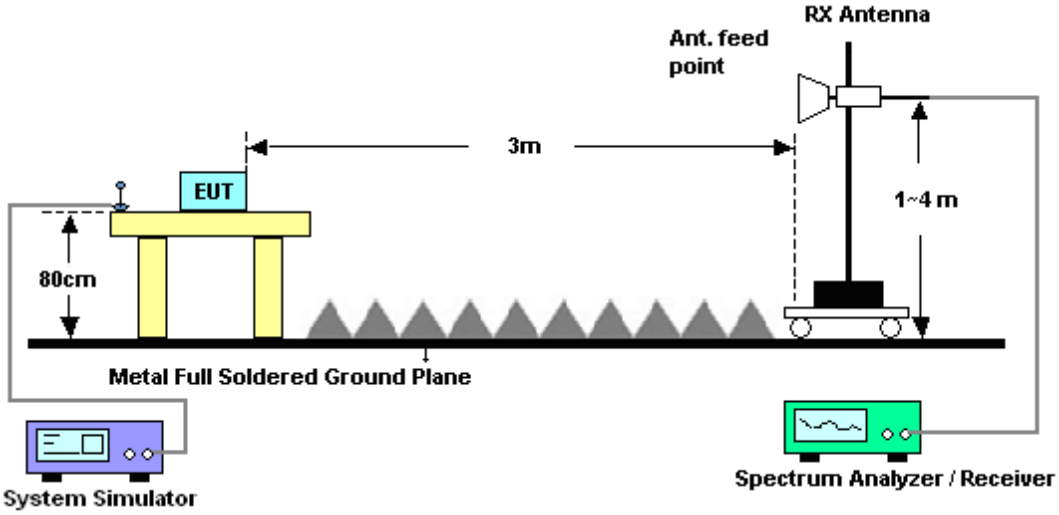
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Effective Radiated Power and Effective Isotropic Radiated Power

4.4.1 Description of the ERP/EIRP Measurement

Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. Mobile and portable (hand-held) stations operating are limited to average ERP of 7 watts with LTE band 5 and 3 watts with LTE band 12 / 13 / 17.

Equivalent isotropic 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 v02r02. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 2 / 7 and 1 watt with LTE band 4.

4.4.2 Test Procedures

1. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
   Note: For IC RSS-199, set PEAK detector instead of RMS detector.
2. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum 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 Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by the 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 and ERP = EIRP - 2.15. Take the record of the output power at substitution antenna.

	LTE Average					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	100kHz	100kHz	300kHz	300kHz	300kHz
VBW	100kHz	300kHz	300kHz	1MHz	1MHz	1MHz
Detector	RMS	RMS	RMS	RMS	RMS	RMS
Trace	Average	Average	Average	Average	Average	Average
Average Type	Power	Power	Power	Power	Power	Power
Sweep Count	100	100	100	100	100	100

	LTE Peak					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	100kHz	100kHz	300kHz	300kHz	300kHz
VBW	100kHz	300kHz	300kHz	1MHz	1MHz	1MHz
Detector	Peak	Peak	Peak	Peak	Peak	Peak
Trace	Max Hold	Max Hold	Max Hold	Max Hold	Max Hold	Max Hold
Power	Channel	Channel	Channel	Channel	Channel	Channel

4.5 Radiated Spurious Emission

4.5.1 Description of Radiated Spurious Emission

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.

For Band 7

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 55 + 10 log (P) dB.

For LTE Band 12,13,17

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.5.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. 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.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
    For Band 7:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

12. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
13. ERP (dBm) = EIRP - 2.15

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8820C	6201432821	GSM/GPRS /WCDMA/LTE	Oct. 27, 2014	May 16, 2015~ May 18, 2015	Oct. 26, 2015	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Sep. 17, 2014	May 16, 2015~ May 18, 2015	Sep. 16 2015	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-30~70°	Dec. 04, 2014	May 16, 2015~ May 18, 2015	Dec. 03, 2015	Conducted (TH05-HY)
Hygrometer	Testo	608-H2	41410069	N/A	Jul. 17, 2014	May 16, 2015~ May 18, 2015	Jul. 16, 2015	Conducted (TH05-HY)
RF cable	WOKEN	S05	S05-130708-0 38	N/A	Jan. 21, 2015	May 16, 2015~ May 18, 2015	Jan. 20, 2016	Conducted (TH05-HY)
Preamplifier	Keysight	83017A	MY53270078	1GHz~26.5GHz	Nov. 20, 2014	May 09, 2015~ May 13, 2015	Nov. 19, 2015	Radiation (03CH10-HY)
Amplifier	SONOMA	310N	187311	0.1MHz~1000MHz	Nov. 24, 2014	May 09, 2015~ May 13, 2015	Nov. 23, 2015	Radiation (03CH10-HY)
Preamplifier	MITEQ	JS44-18004 000-33-8P	1840917	18GHz ~ 40GHz	Jun. 09, 2014	May 09, 2015~ May 13, 2015	Jun. 08, 2015	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D	35413	30MHz~1GHz	Oct. 24, 2014	May 09, 2015~ May 13, 2015	Oct. 23, 2015	Radiation (03CH10-HY)
Double Ridged Guide Horn	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Oct. 03, 2014	May 09, 2015~ May 13, 2015	Oct. 02, 2015	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 03, 2014	May 09, 2015~ May 13, 2015	Nov. 02, 2015	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHZ	Oct. 14, 2014	May 09, 2015~ May 13, 2015	Oct. 13, 2015	Radiation (03CH10-HY)
EMI Test Receiver	Keysight	N9038A	MY54130085	20Hz ~ 26.5GHz	Nov. 05, 2014	May 09, 2015~ May 13, 2015	Nov. 04, 2015	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	May 09, 2015~ May 13, 2015	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0-360 degree	N/A	May 09, 2015~ May 13, 2015	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-450 0-B	N/A	1~4m	N/A	May 09, 2015~ May 13, 2015	N/A	Radiation (03CH10-HY)
Hygrometer	TECPEL	DTM-303B	TP140320	N/A	Nov. 17, 2014	May 09, 2015~ May 13, 2015	Nov. 16, 2015	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24956/4 MY24952/4MY	25GHz~40GHz	Nov. 06, 2014	May 09, 2015~ May 13, 2015	Nov. 05, 2015	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24956/4 MY24952/4MY 28386/4	30MHz~1GHz	Nov. 06, 2014	May 09, 2015~ May 13, 2015	Nov. 05, 2015	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY249564 MY249524MY 283864	1GHz~25GHz	Nov. 06, 2014	May 09, 2015~ May 13, 2015	Nov. 05, 2015	Radiation (03CH10-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Wainwright	WLKS1200-	SN3	1.2G Low Pass	Oct. 01, 2014	May 09, 2015~ May 13, 2015	Sep. 30, 2015	Radiation (03CH10-HY)
Filter	Wainwright	WHK1.5/15	SN32	1.5G High Pass	Oct. 01, 2014	May 09, 2015~ May 13, 2015	Sep. 30, 2015	Radiation (03CH10-HY)
Filter	Microwave	H3G018G1	SN477220	3.0G High Pass	Oct. 01, 2014	May 09, 2015~ May 13, 2015	Sep. 30, 2015	Radiation (03CH10-HY)
Notch Filter	Wainwright	WRCG824/8	SN35	CDMA 850	Oct. 01, 2014	May 09, 2015~ May 13, 2015	Sep. 30, 2015	Radiation (03CH10-HY)
Notch Filter	Wainwright	WRCG1710/	SN2	AWS Band	Oct. 01, 2014	May 09, 2015~ May 13, 2015	Sep. 30, 2015	Radiation (03CH10-HY)
Notch Filter	Wainwright	WRCT1850/	SN21	1900	Oct. 01, 2014	May 09, 2015~ May 13, 2015	Sep. 30, 2015	Radiation (03CH10-HY)
Notch Filter	Wainwright	WRCT2500/	SN1 R	LTE Band7	Oct. 01, 2014	May 09, 2015~ May 13, 2015	Sep. 30, 2015	Radiation (03CH10-HY)
Notch Filter	Wainwright	WRCT698/7	SN1	700	Oct. 01, 2014	May 09, 2015~ May 13, 2015	Sep. 30, 2015	Radiation (03CH10-HY)

6 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))	5.50

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.93	22.26	22.02
1.4	1	2		22.05	22.36	22.12
1.4	1	5		22.01	22.25	22.01
1.4	3	0		22.07	22.36	22.13
1.4	3	1		22.05	22.30	22.08
1.4	3	2		22.04	22.32	22.07
1.4	6	0		21.06	21.30	21.12
1.4	1	0	16-QAM	21.22	21.56	21.29
1.4	1	2		21.34	21.66	21.36
1.4	1	5		21.29	21.55	21.24
1.4	3	0		21.09	21.39	21.12
1.4	3	1		21.07	21.33	21.06
1.4	3	2		21.05	21.33	21.06
1.4	6	0		20.18	20.42	20.22
3	1	0	QPSK	21.92	22.23	22.03
3	1	7		22.10	22.31	22.11
3	1	14		22.07	22.19	21.97
3	8	0		21.10	21.35	21.14
3	8	4		21.16	21.32	21.14
3	8	7		21.18	21.33	21.12
3	15	0		21.16	21.33	21.15
3	1	0	16-QAM	21.20	21.53	21.32
3	1	7		21.36	21.61	21.34
3	1	14		21.35	21.46	21.21
3	8	0		20.20	20.46	20.23
3	8	4		20.25	20.42	20.22
3	8	7		20.26	20.44	20.21
3	15	0		20.19	20.39	20.19

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.07	22.34	22.16
5	1	12		22.24	22.37	22.16
5	1	24		22.31	22.25	22.02
5	12	0		21.22	21.42	21.24
5	12	6		21.29	21.38	21.20
5	12	11		21.34	21.39	21.20
5	25	0		21.27	21.36	21.18
5	1	0	16-QAM	21.33	21.65	21.46
5	1	12		21.51	21.68	21.42
5	1	24		21.58	21.55	21.25
5	12	0		20.25	20.46	20.29
5	12	6		20.33	20.43	20.25
5	12	11		20.39	20.43	20.24
5	25	0		20.28	20.37	20.20
10	1	0	QPSK	22.10	22.37	22.23
10	1	24		22.30	22.34	22.17
10	1	49		22.06	22.07	22.03
10	25	0		21.31	21.39	21.22
10	25	12		21.38	21.36	21.21
10	25	24		21.33	21.34	21.17
10	50	0		21.39	21.39	21.25
10	1	0	16-QAM	21.38	21.69	21.57
10	1	24		21.65	21.65	21.49
10	1	49		21.39	21.42	21.29
10	25	0		20.34	20.42	20.27
10	25	12		20.45	20.38	20.26
10	25	24		20.41	20.37	20.21
10	50	0		20.44	20.42	20.29

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.14	22.44	22.26
15	1	37		22.16	22.33	22.24
15	1	74		22.25	21.95	22.05
15	36	0		21.30	21.50	21.33
15	36	18		21.23	21.42	21.29
15	36	37		21.24	21.26	21.24
15	75	0		21.26	21.42	21.27
15	1	0	16-QAM	21.42	21.74	21.61
15	1	37		21.50	21.66	21.56
15	1	74		21.58	21.29	21.28
15	36	0		20.35	20.52	20.37
15	36	18		20.27	20.45	20.34
15	36	37		20.29	20.33	20.29
15	75	0		20.32	20.44	20.32
20	1	0	QPSK	22.18	22.44	22.26
20	1	49		22.19	22.30	22.25
20	1	99		22.12	21.90	22.02
20	50	0		21.28	21.49	21.28
20	50	24		21.26	21.40	21.29
20	50	49		21.27	21.11	21.24
20	100	0		21.29	21.39	21.30
20	1	0	16-QAM	21.45	21.76	21.55
20	1	49		21.53	21.62	21.57
20	1	99		21.47	21.26	21.30
20	50	0		20.35	20.51	20.37
20	50	24		20.31	20.44	20.34
20	50	49		20.31	20.22	20.28
20	100	0		20.34	20.43	20.33

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.04	22.09	**22.34**
1.4	1	2		22.13	22.26	22.11
1.4	1	5		22.05	22.00	22.14
1.4	3	0		22.12	22.16	22.23
1.4	3	1		22.12	22.05	22.19
1.4	3	2		22.10	22.03	22.18
1.4	6	0		21.04	21.38	21.10
1.4	1	0	16-QAM	21.24	21.82	21.48
1.4	1	2		21.29	22.02	21.63
1.4	1	5		21.22	21.75	21.56
1.4	3	0		21.19	21.75	21.33
1.4	3	1		21.09	21.87	21.55
1.4	3	2		21.09	21.82	21.46
1.4	6	0		20.61	20.91	21.07
3	1	0	QPSK	22.02	22.07	22.05
3	1	7		22.10	22.14	**22.16**
3	1	14		22.01	22.06	22.10
3	8	0		21.17	21.21	21.22
3	8	4		21.16	21.20	21.23
3	8	7		21.14	21.19	21.21
3	15	0		21.12	21.18	21.20
3	1	0	16-QAM	21.35	21.38	21.47
3	1	7		21.42	21.38	21.41
3	1	14		21.33	21.33	21.34
3	8	0		20.28	20.22	20.10
3	8	4		20.28	20.16	20.08
3	8	7		20.26	20.24	20.26
3	15	0		20.19	20.34	20.32

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.10	22.17	22.18
5	1	12		22.14	22.19	22.20
5	1	24		22.04	22.07	22.10
5	12	0		21.19	21.24	21.26
5	12	6		21.18	21.23	21.25
5	12	11		21.18	21.23	21.17
5	25	0		21.14	21.19	21.21
5	1	0	16-QAM	21.45	21.48	21.53
5	1	12		21.47	21.51	21.53
5	1	24		21.38	21.39	21.43
5	12	0		20.24	20.27	20.30
5	12	6		20.23	20.26	20.30
5	12	11		20.23	20.17	20.30
5	25	0		20.19	20.09	20.24
10	1	0	QPSK	22.18	22.17	22.16
10	1	24		22.20	22.16	22.16
10	1	49		22.09	22.07	22.09
10	25	0		21.25	21.21	21.20
10	25	12		21.23	21.19	21.18
10	25	24		21.19	21.17	21.17
10	50	0		21.22	21.19	21.21
10	1	0	16-QAM	21.53	21.49	21.52
10	1	24		21.56	21.50	21.50
10	1	49		21.45	21.42	21.42
10	25	0		20.26	20.22	20.22
10	25	12		20.24	20.21	20.20
10	25	24		20.21	20.20	20.19
10	50	0		20.23	20.20	20.22

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.21	22.19	22.18
15	1	37		22.22	22.17	22.17
15	1	74		22.09	22.05	22.06
15	36	0		21.30	21.25	21.24
15	36	18		21.27	21.24	21.24
15	36	37		21.20	21.19	21.19
15	75	0		21.23	21.23	21.18
15	1	0	16-QAM	21.53	21.49	21.52
15	1	37		21.55	21.49	21.51
15	1	74		21.41	21.41	21.42
15	36	0		20.30	20.26	20.25
15	36	18		20.27	20.25	20.24
15	36	37		20.22	20.22	20.20
15	75	0		20.24	20.24	20.24
20	1	0	QPSK	22.18	22.19	22.35
20	1	49		22.19	22.16	22.18
20	1	99		22.05	22.04	22.04
20	50	0		21.24	21.23	21.23
20	50	24		21.21	21.22	21.20
20	50	49		21.16	21.18	21.16
20	100	0		21.19	21.19	21.17
20	1	0	16-QAM	21.52	21.52	21.51
20	1	49		21.50	21.48	21.50
20	1	99		21.36	21.39	21.38
20	50	0		20.26	20.24	20.25
20	50	24		20.23	20.23	20.20
20	50	49		20.17	20.19	20.17
20	100	0		20.20	20.20	20.18

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.70	22.77	22.69
1.4	1	2		22.79	22.89	22.74
1.4	1	5		22.69	22.91	22.16
1.4	3	0		22.84	**22.96**	22.34
1.4	3	1		22.79	22.84	22.33
1.4	3	2		22.81	22.63	22.42
1.4	6	0		21.85	22.02	21.92
1.4	1	0	16-QAM	22.01	22.34	22.19
1.4	1	2		22.09	22.46	22.29
1.4	1	5		21.99	22.43	22.14
1.4	3	0		21.86	22.15	22.08
1.4	3	1		21.81	22.07	22.14
1.4	3	2		21.81	22.09	22.11
1.4	6	0		20.92	21.03	20.99
3	1	0	QPSK	22.92	22.74	22.72
3	1	7		22.78	22.81	22.87
3	1	14		22.72	22.70	**22.96**
3	8	0		21.84	21.90	22.01
3	8	4		21.86	21.90	22.12
3	8	7		21.84	21.89	21.99
3	15	0		21.84	21.82	22.03
3	1	0	16-QAM	21.96	22.17	22.40
3	1	7		22.01	22.22	22.39
3	1	14		21.98	22.11	22.15
3	8	0		20.89	21.03	21.20
3	8	4		20.87	21.03	21.12
3	8	7		20.87	21.01	21.17
3	15	0		20.83	20.93	21.04

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.97	22.80	23.02
5	1	12		22.67	22.85	23.11
5	1	24		22.33	22.85	22.47
5	12	0		22.04	21.99	22.18
5	12	6		22.02	22.12	21.91
5	12	11		22.14	22.10	22.05
5	25	0		21.91	22.01	22.07
5	1	0	16-QAM	22.07	22.46	22.27
5	1	12		22.15	22.46	22.43
5	1	24		22.09	22.25	22.06
5	12	0		20.85	21.27	21.03
5	12	6		20.85	21.13	21.11
5	12	11		20.85	20.95	21.15
5	25	0		20.80	20.91	21.07
10	1	0	QPSK	23.12	22.86	22.77
10	1	24		22.70	22.99	22.79
10	1	49		22.46	22.88	22.87
10	25	0		21.92	22.05	21.94
10	25	12		21.68	22.08	21.90
10	25	24		21.72	22.06	21.88
10	50	0		21.74	22.09	21.88
10	1	0	16-QAM	22.05	22.27	22.15
10	1	24		22.30	22.42	22.11
10	1	49		22.21	22.22	22.07
10	25	0		20.82	21.08	20.85
10	25	12		20.92	21.01	20.86
10	25	24		20.95	20.89	20.86
10	50	0		20.85	20.90	20.86

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.31	21.81	21.87
5	1	12		21.36	21.88	21.88
5	1	24		21.31	21.85	21.77
5	12	0		20.42	20.92	20.98
5	12	6		20.42	20.93	20.96
5	12	11		20.44	20.95	20.95
5	25	0		20.39	20.89	20.94
5	1	0	16-QAM	20.57	21.06	21.13
5	1	12		20.62	21.12	21.12
5	1	24		20.59	21.11	21.03
5	12	0		19.44	19.95	20.00
5	12	6		19.46	19.94	19.99
5	12	11		19.48	19.97	19.98
5	25	0		19.40	19.91	19.95
10	1	0	QPSK	21.29	21.75	21.89
10	1	24		21.36	21.87	21.91
10	1	49		21.35	21.88	21.79
10	25	0		20.37	20.86	20.98
10	25	12		20.40	20.87	20.97
10	25	24		20.44	20.95	20.95
10	50	0		20.44	20.91	21.00
10	1	0	16-QAM	20.56	21.00	21.19
10	1	24		20.64	21.13	21.17
10	1	49		20.67	21.17	21.10
10	25	0		19.40	19.87	20.00
10	25	12		19.44	19.90	19.98
10	25	24		19.47	19.97	19.95
10	50	0		19.47	19.93	20.02

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.40	21.68	21.91
15	1	37		21.55	21.86	21.96
15	1	74		21.51	21.95	21.85
15	36	0		20.58	20.85	21.04
15	36	18		20.61	20.92	21.06
15	36	37		20.62	21.00	21.04
15	75	0		20.58	20.92	21.02
15	1	0	16-QAM	20.66	20.97	21.18
15	1	37		20.83	21.12	21.22
15	1	74		20.82	21.21	21.11
15	36	0		19.61	19.87	20.05
15	36	18		19.65	19.97	20.08
15	36	37		19.65	20.01	20.06
15	75	0		19.61	19.94	20.04
20	1	0	QPSK	21.70	21.59	21.97
20	1	49		21.38	21.83	21.82
20	1	99		21.37	21.92	21.84
20	50	0		20.40	20.81	20.98
20	50	24		20.40	20.90	21.03
20	50	49		20.31	20.98	21.02
20	100	0		20.24	20.87	20.99
20	1	0	16-QAM	20.64	20.92	21.15
20	1	49		20.82	21.11	21.25
20	1	99		20.81	21.22	21.11
20	50	0		19.44	19.84	20.00
20	50	24		19.45	19.93	20.04
20	50	49		19.52	20.01	20.04
20	100	0		19.50	19.89	20.01

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.38	22.33	22.46
1.4	1	2		22.48	22.44	22.52
1.4	1	5		22.39	22.33	22.42
1.4	3	0		22.48	22.43	**22.56**
1.4	3	1		22.43	22.38	22.50
1.4	3	2		22.43	22.38	22.49
1.4	6	0		21.46	21.42	21.52
1.4	1	0	16-QAM	21.70	21.68	21.82
1.4	1	2		21.82	21.76	21.87
1.4	1	5		21.73	21.66	21.77
1.4	3	0		21.53	21.47	21.61
1.4	3	1		21.48	21.44	21.56
1.4	3	2		21.48	21.42	21.54
1.4	6	0		20.59	20.56	20.63
3	1	0	QPSK	22.31	22.29	22.37
3	1	7		22.38	22.34	**22.46**
3	1	14		22.34	22.25	22.33
3	8	0		21.45	21.41	21.51
3	8	4		21.45	21.41	21.52
3	8	7		21.45	21.41	21.50
3	15	0		21.45	21.40	21.49
3	1	0	16-QAM	21.66	21.64	21.75
3	1	7		21.72	21.68	21.81
3	1	14		21.73	21.58	21.66
3	8	0		20.56	20.54	20.64
3	8	4		20.57	20.54	20.65
3	8	7		20.57	20.54	20.63
3	15	0		20.52	20.47	20.57

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.35	22.35	22.33
5	1	12		22.42	22.36	22.45
5	1	24		22.35	22.30	22.36
5	12	0		21.48	21.46	21.48
5	12	6		21.47	21.44	21.50
5	12	11		21.49	21.42	21.50
5	25	0		21.42	21.39	21.43
5	1	0	16-QAM	21.69	21.70	21.69
5	1	12		21.79	21.69	21.82
5	1	24		21.72	21.64	21.70
5	12	0		20.55	20.54	20.55
5	12	6		20.54	20.52	20.58
5	12	11		20.55	20.49	20.59
5	25	0		20.48	20.46	20.50
10	1	0	QPSK	22.33	22.57	22.27
10	1	24		22.41	22.36	22.34
10	1	49		22.35	22.37	22.37
10	25	0		21.39	21.37	21.22
10	25	12		21.40	21.38	21.21
10	25	24		21.42	21.40	21.41
10	50	0		21.40	21.41	21.26
10	1	0	16-QAM	21.69	21.72	21.55
10	1	24		21.77	21.67	21.58
10	1	49		21.69	21.73	21.69
10	25	0		20.45	20.43	20.88
10	25	12		20.47	20.35	21.28
10	25	24		20.48	20.34	21.06
10	50	0		20.46	20.53	21.25

LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.68	22.61	22.61
5	1	12		22.64	22.65	22.67
5	1	24		22.58	22.59	22.58
5	12	0		22.76	22.70	22.70
5	12	6		22.76	22.68	22.72
5	12	11		22.71	22.69	22.73
5	25	0		22.66	22.63	22.65
5	1	0	16-QAM	**23.00**	22.96	22.94
5	1	12		22.98	22.95	22.98
5	1	24		22.90	22.92	22.92
5	12	0		22.81	22.75	22.73
5	12	6		22.81	22.72	22.76
5	12	11		22.77	22.73	22.77
5	25	0		22.72	22.67	22.68
10	1	0	QPSK	-	22.66	-
10	1	24			22.64	
10	1	49			22.63	
10	25	0			22.69	
10	25	12			22.63	
10	25	24			22.67	
10	50	0			22.68	
10	1	0	16-QAM		**22.99**	
10	1	24			22.97	
10	1	49			22.98	
10	25	0			22.75	
10	25	12			22.67	
10	25	24			22.71	
10	50	0			22.71	

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.83	22.82	22.79
5	1	12		22.84	22.84	22.87
5	1	24		22.86	22.89	22.88
5	12	0		21.86	21.85	21.86
5	12	6		21.89	21.89	21.87
5	12	11		21.94	21.92	21.93
5	25	0		21.92	21.91	21.93
5	1	0	16-QAM	22.17	22.11	22.10
5	1	12		22.13	22.14	22.18
5	1	24		22.23	22.25	22.20
5	12	0		20.91	20.89	20.89
5	12	6		20.91	20.91	20.90
5	12	11		20.95	20.95	20.96
5	25	0		20.94	20.94	20.95
10	1	0	QPSK	23.05	22.80	22.84
10	1	24		23.00	22.85	22.90
10	1	49		22.83	22.83	22.85
10	25	0		21.94	21.91	21.93
10	25	12		21.95	21.93	21.96
10	25	24		21.95	21.94	21.98
10	50	0		21.92	21.88	21.91
10	1	0	16-QAM	22.21	22.08	22.16
10	1	24		22.19	22.14	22.25
10	1	49		22.09	22.17	22.17
10	25	0		20.98	20.94	20.97
10	25	12		21.00	20.96	20.99
10	25	24		21.00	20.98	21.03
10	50	0		20.93	20.90	20.93

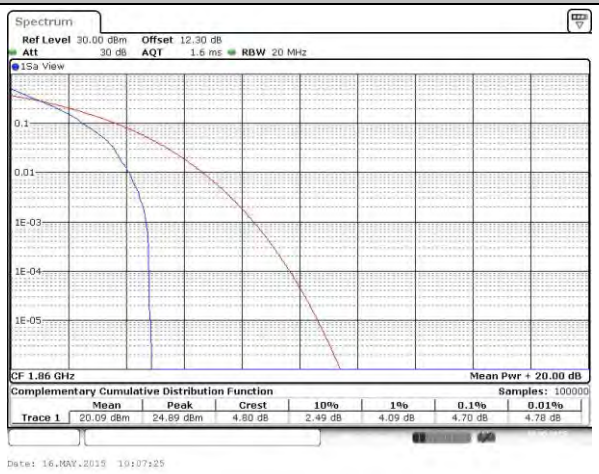
LTE Band 2

Peak-to-Average Ratio

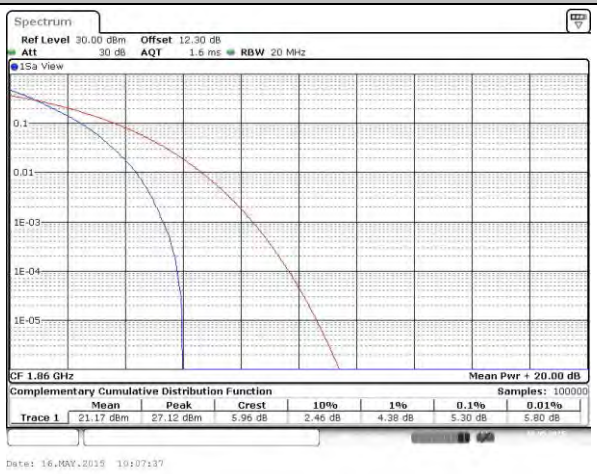
Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.7	5.3	5.86	6.26	PASS
Middle CH	4.96	5.48	6.03	6.43	
Highest CH	4.7	5.54	6.32	6.43	

LTE Band 2 / 20MHz / QPSK

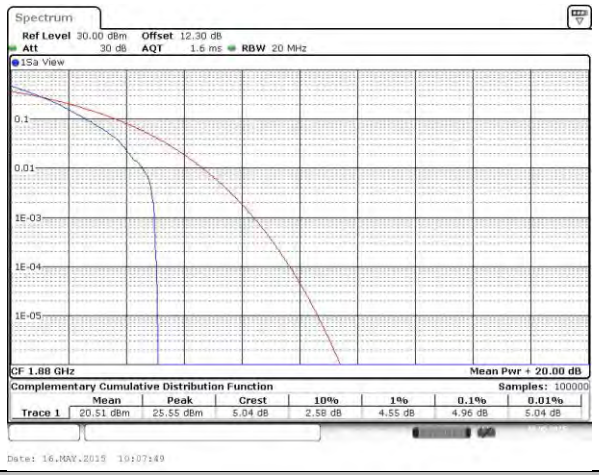
Lowest Channel / 1RB



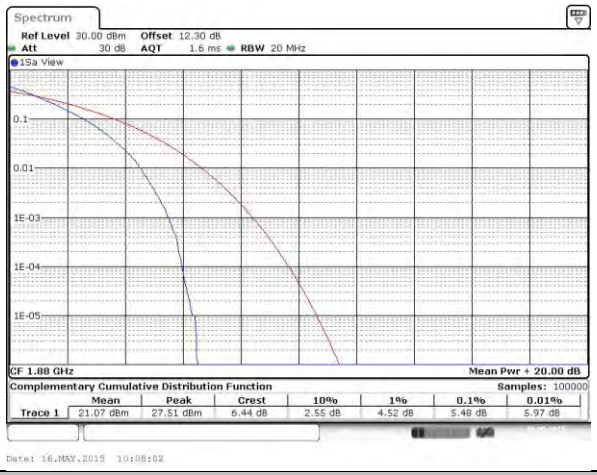
Lowest Channel / Full RB



Middle Channel / 1RB

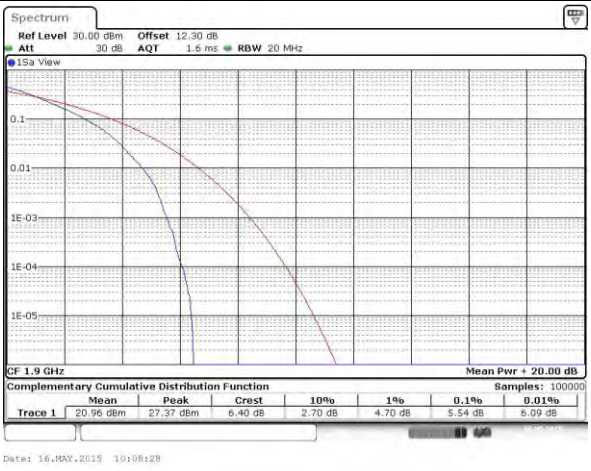


Middle Channel / Full RB



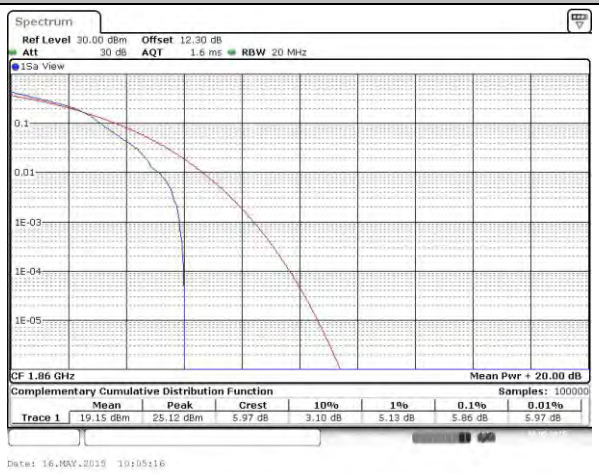
Highest Channel / 1RB

Highest Channel / Full RB

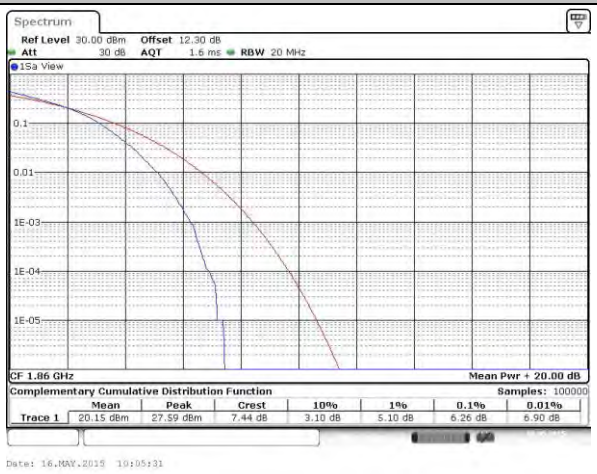


LTE Band 2 / 20MHz / 16QAM

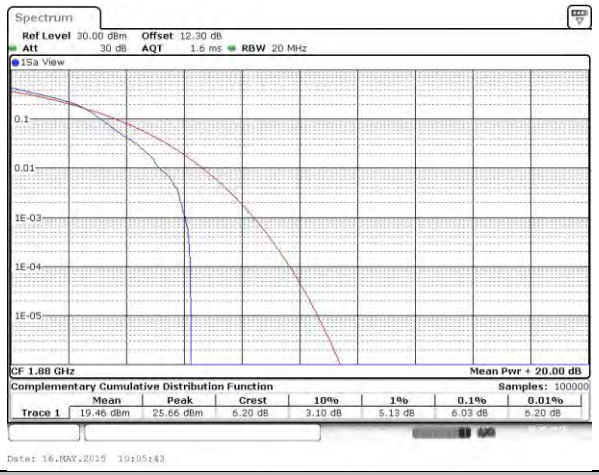
Lowest Channel / 1RB



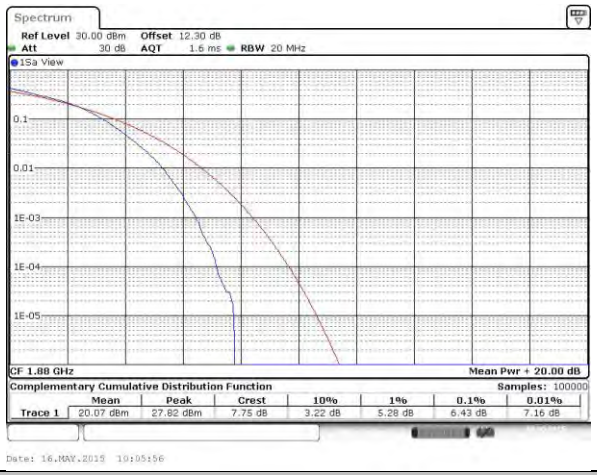
Lowest Channel / Full RB



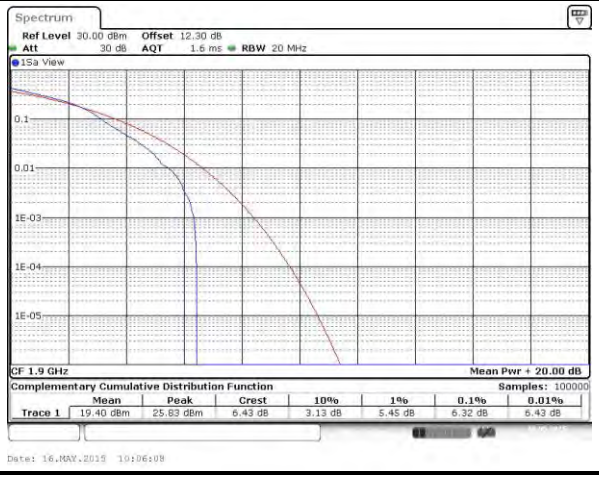
Middle Channel / 1RB



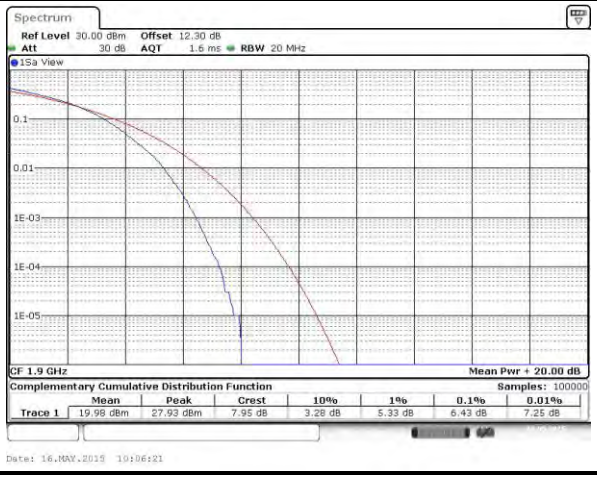
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

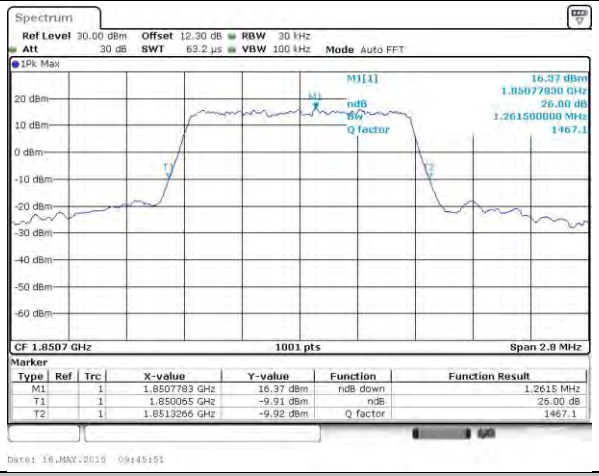


26dB Bandwidth

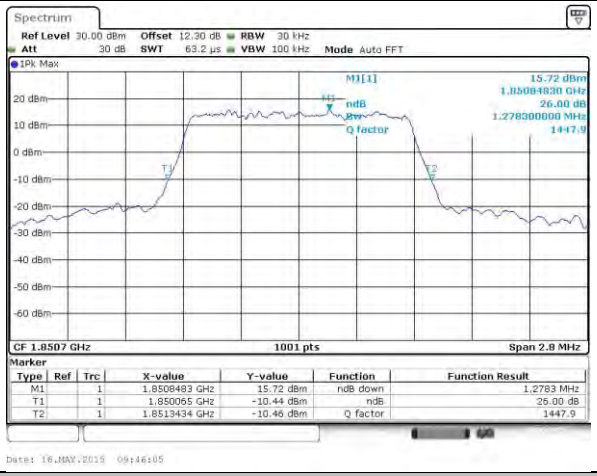
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.26	1.28	3.02	3.03	5.06	5.09	9.97	10.01	14.78	14.81	20.34	20.46
Middle CH	1.26	1.28	3.02	3.03	5.07	5.11	10.09	9.95	14.81	14.84	20.66	20.50
Highest CH	1.26	1.27	3.02	3.03	5.08	5.10	9.95	10.05	14.84	14.90	20.26	20.34

LTE Band 2

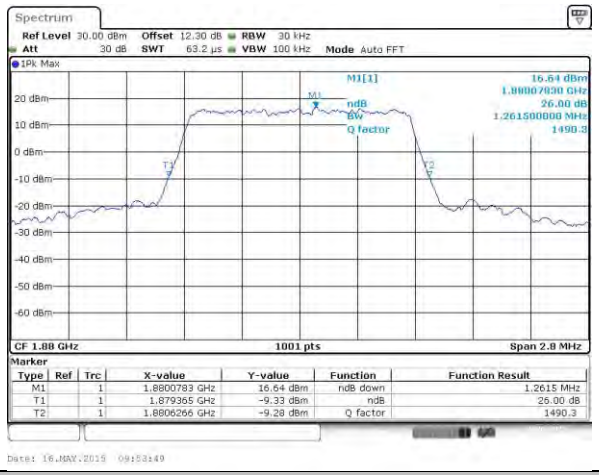
Lowest Channel / 1.4MHz / QPSK



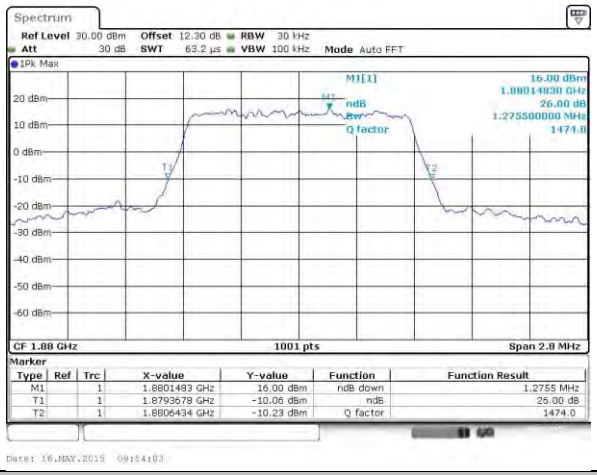
Lowest Channel / 1.4MHz / 16QAM



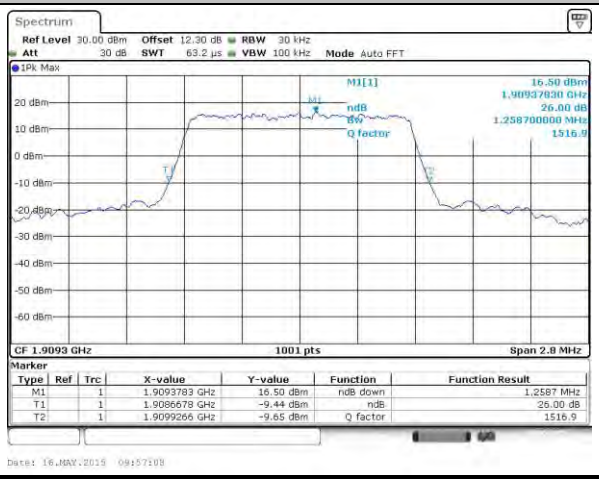
Middle Channel / 1.4MHz / QPSK



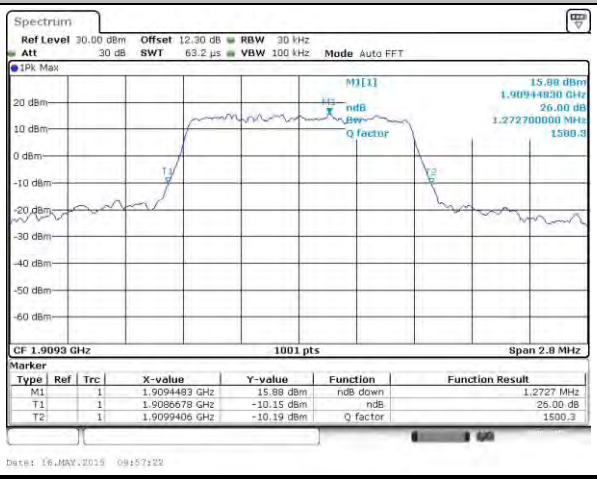
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

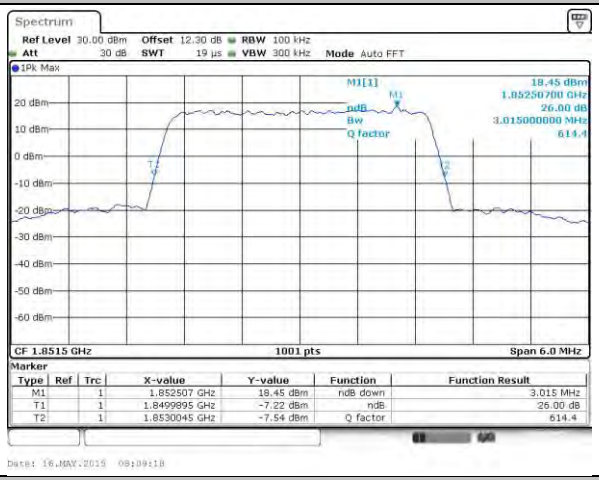


Highest Channel / 1.4MHz / 16QAM

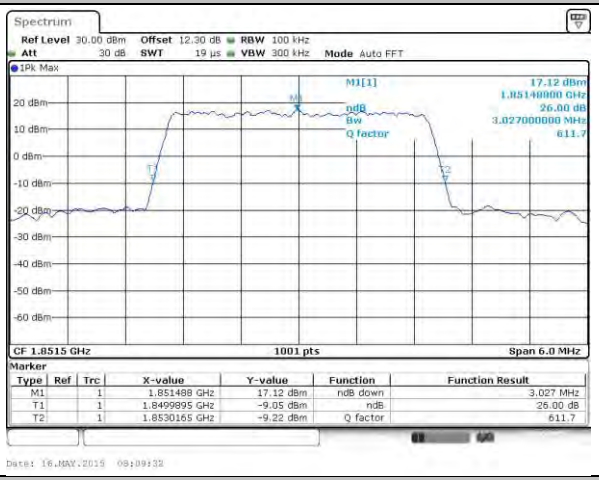


LTE Band 2

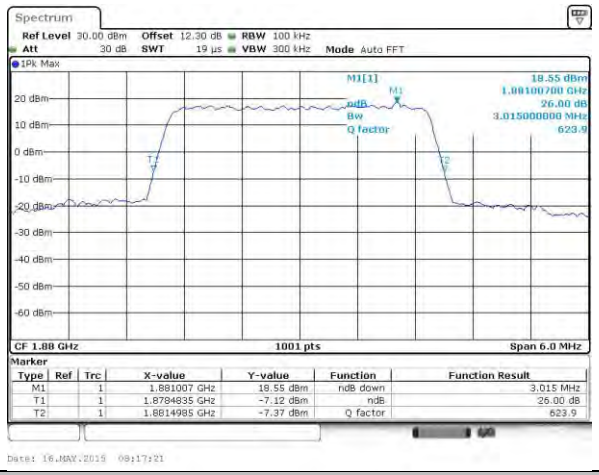
Lowest Channel / 3MHz / QPSK



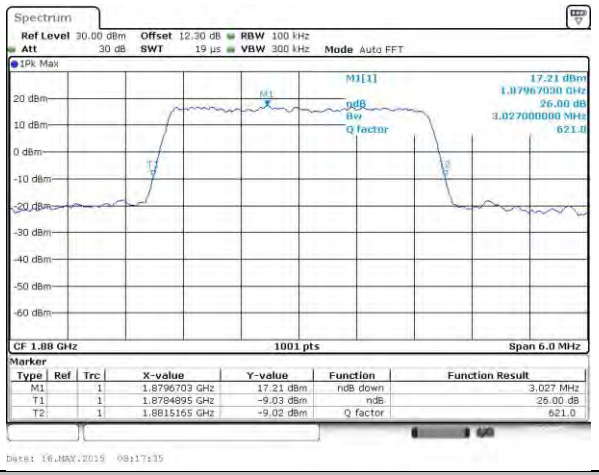
Lowest Channel / 3MHz / 16QAM



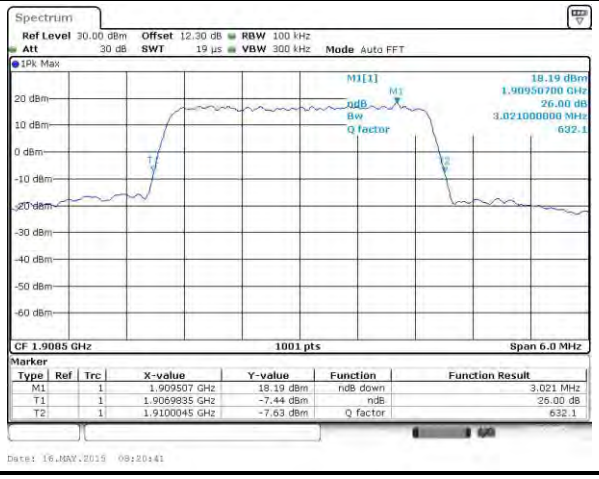
Middle Channel / 3MHz / QPSK



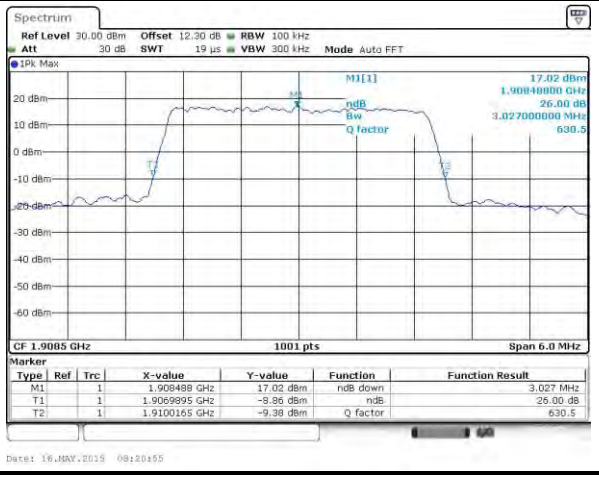
Middle Channel /3MHz / 16QAM



Highest Channel /3MHz / QPSK

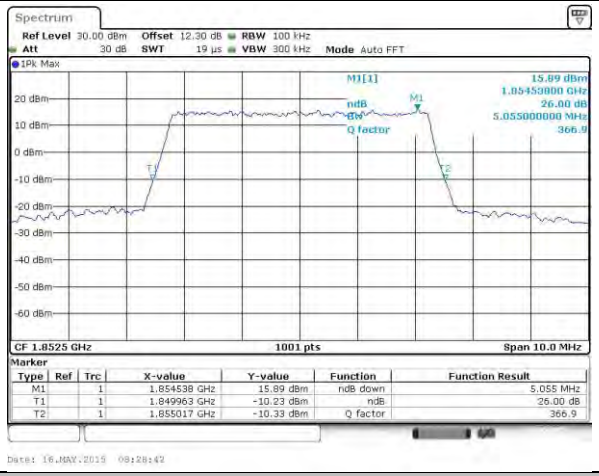


Highest Channel /3MHz / 16QAM

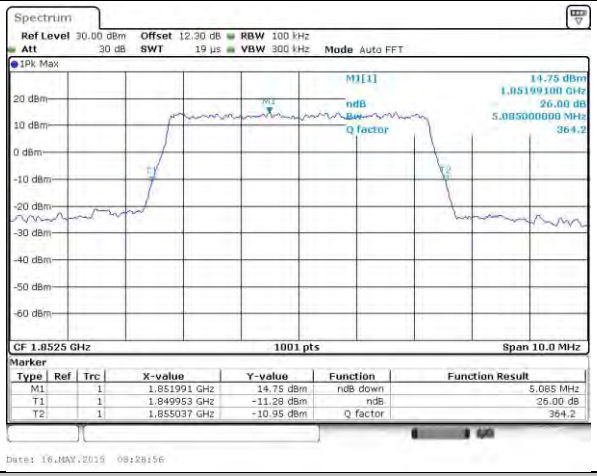


LTE Band 2

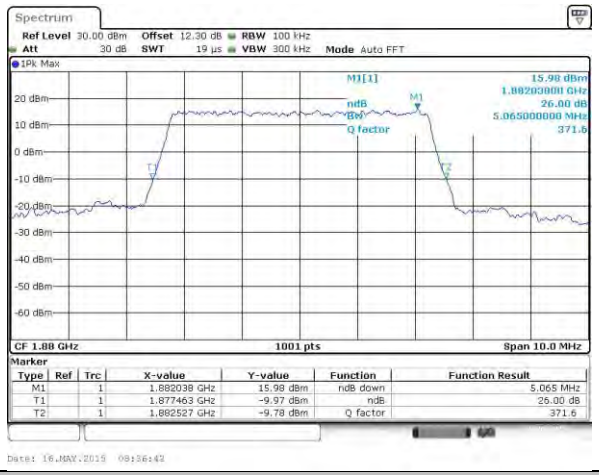
Lowest Channel / 5MHz / QPSK



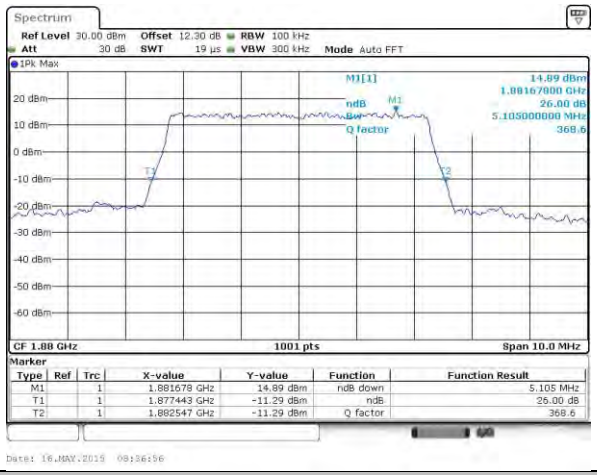
Lowest Channel / 5MHz / 16QAM



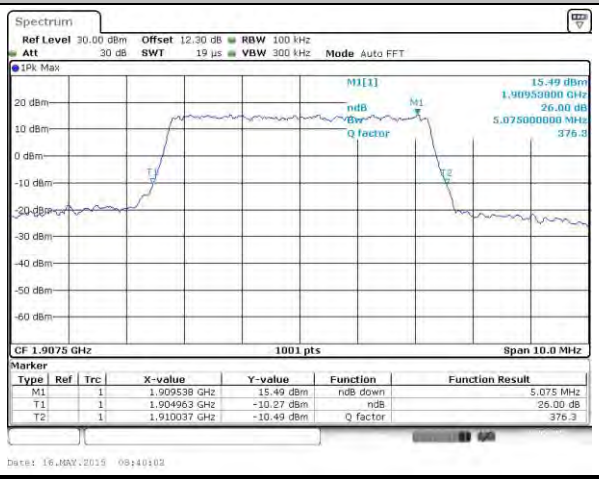
Middle Channel / 5MHz / QPSK



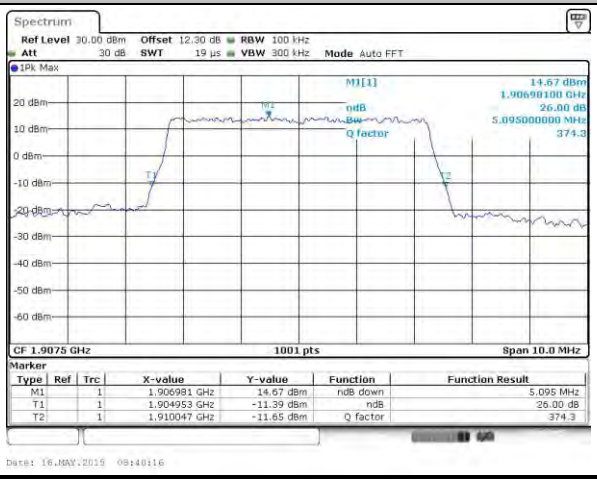
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

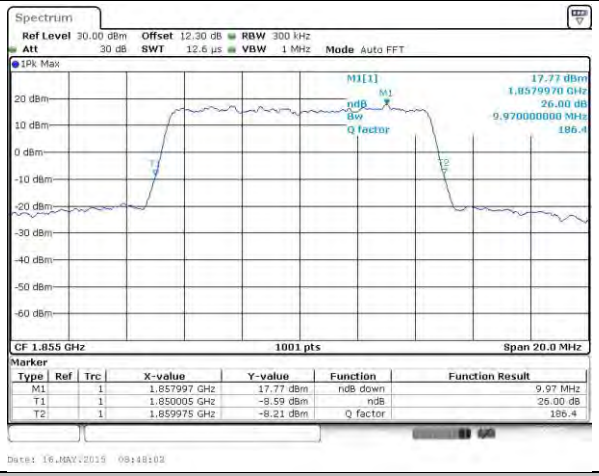


Highest Channel / 5MHz / 16QAM

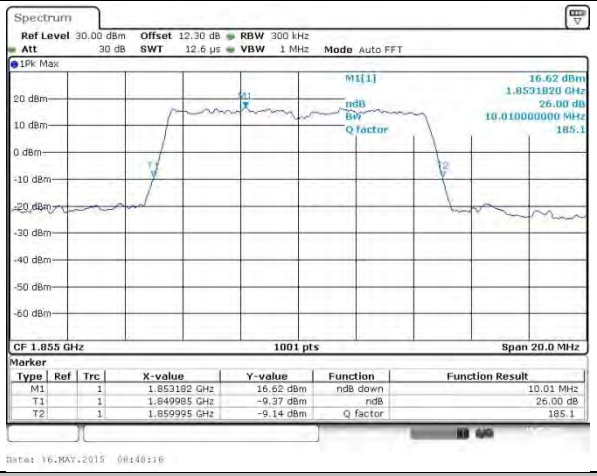


LTE Band 2

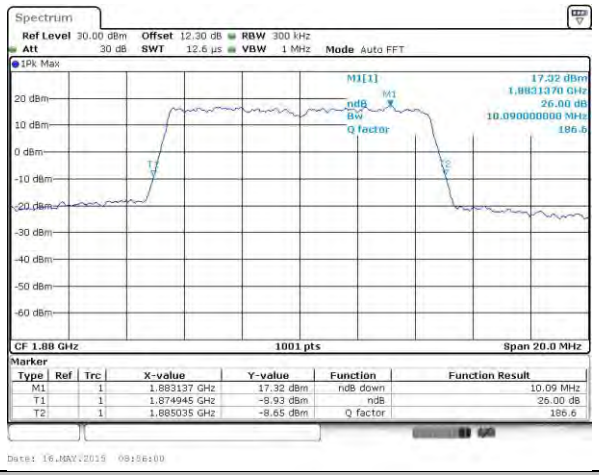
Lowest Channel / 10MHz / QPSK



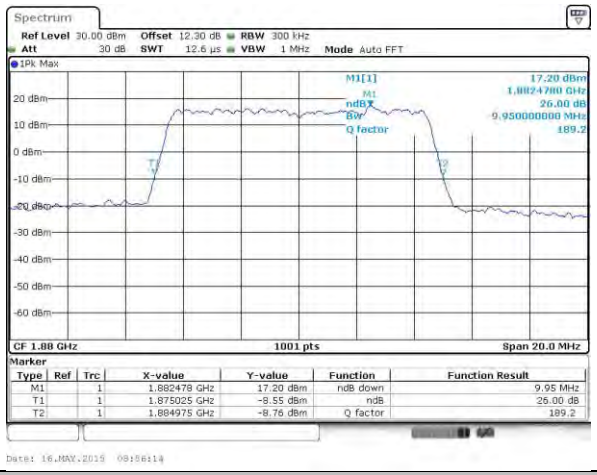
Lowest Channel / 10MHz / 16QAM



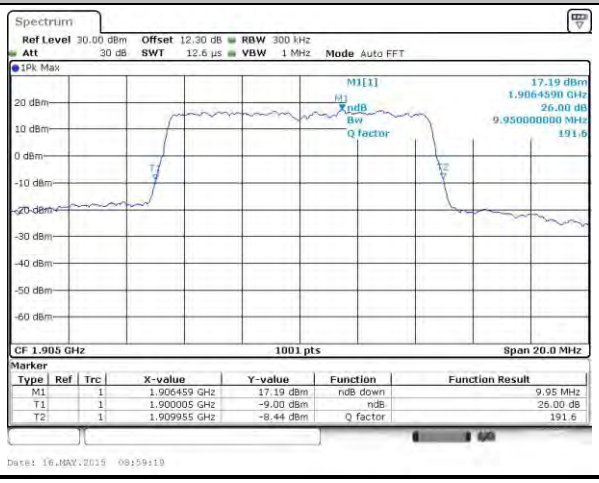
Middle Channel / 10MHz / QPSK



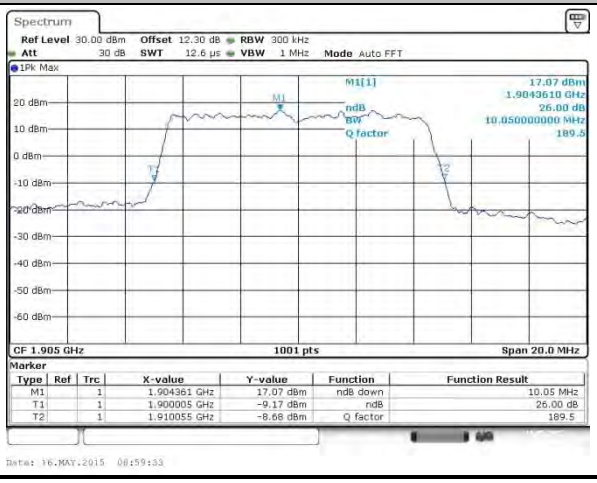
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

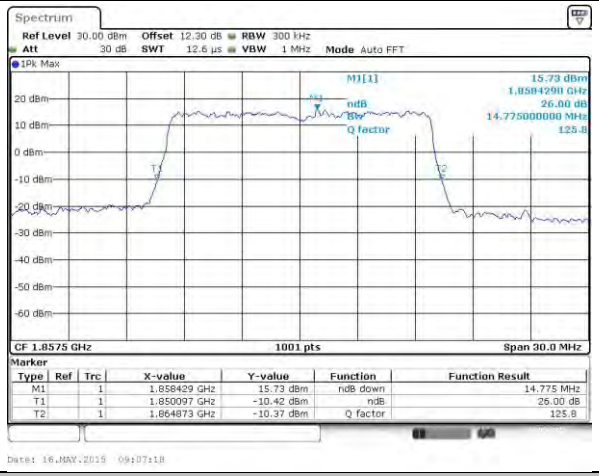


Highest Channel / 10MHz / 16QAM

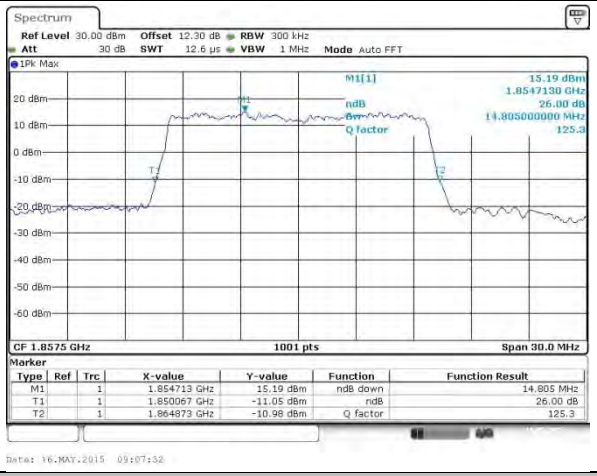


LTE Band 2

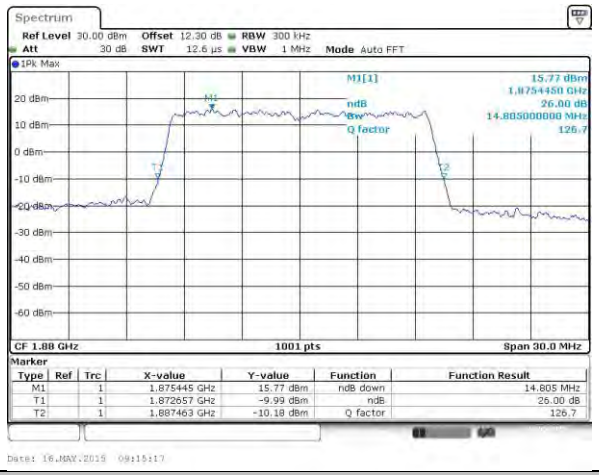
Lowest Channel / 15MHz / QPSK



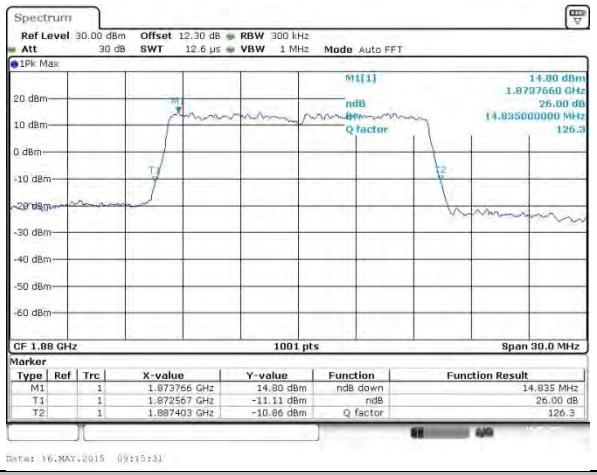
Lowest Channel / 15MHz / 16QAM



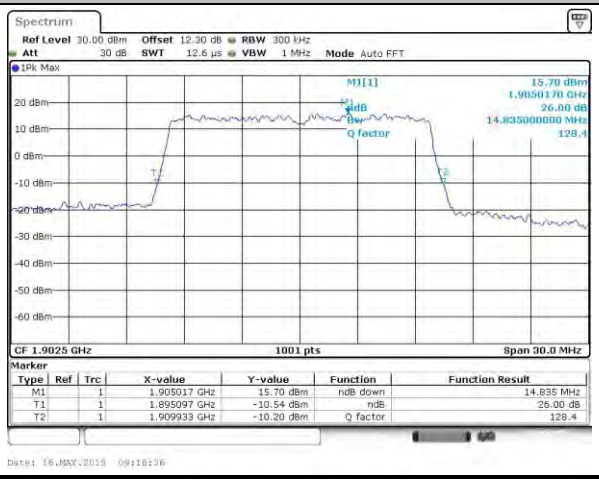
Middle Channel / 15MHz / QPSK



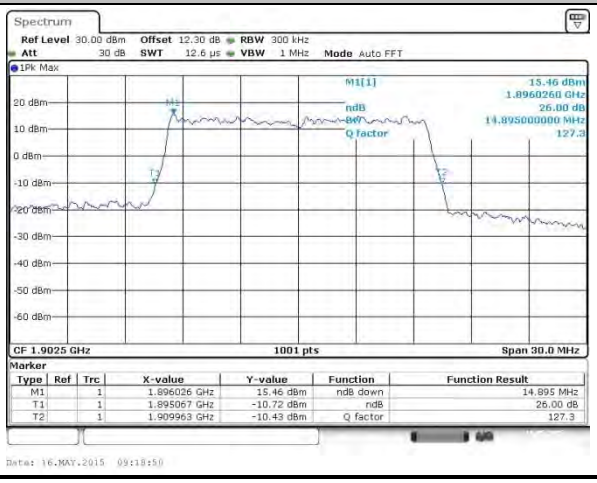
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

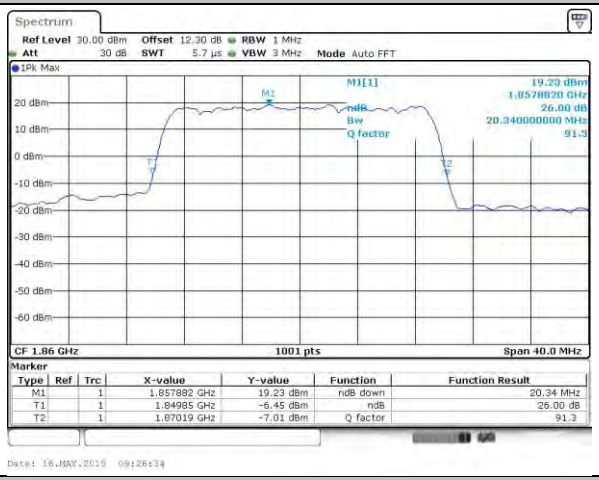


Highest Channel / 15MHz / 16QAM

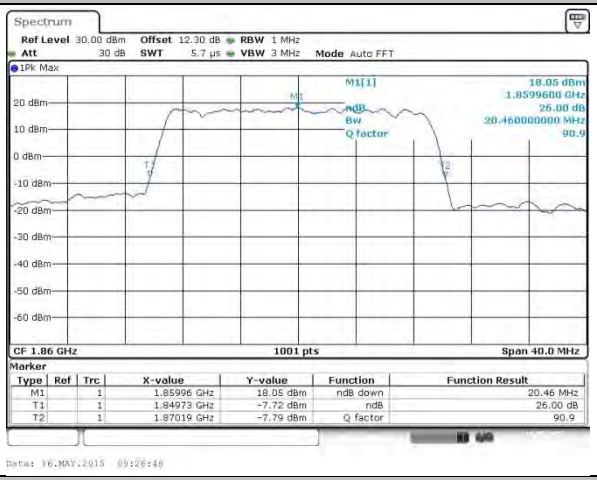


LTE Band 2

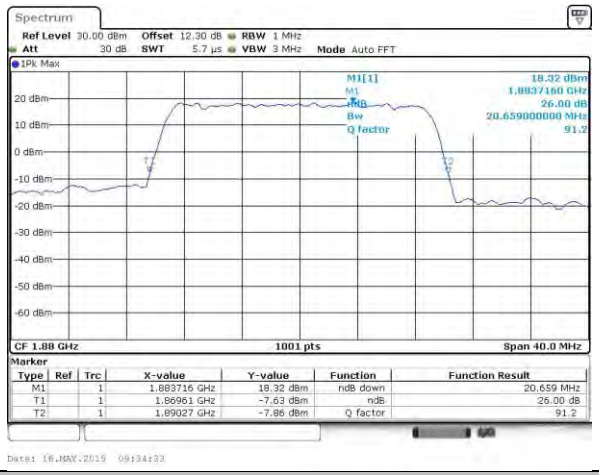
Lowest Channel / 20MHz / QPSK



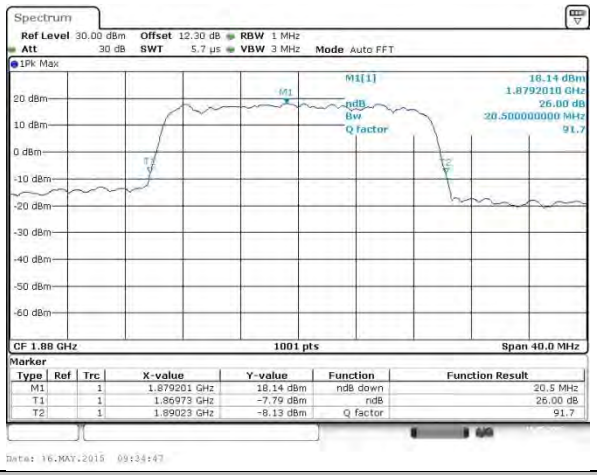
Lowest Channel / 20MHz / 16QAM



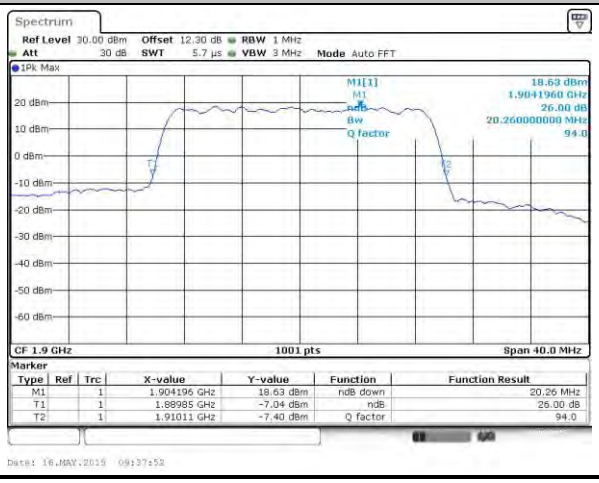
Middle Channel / 20MHz / QPSK



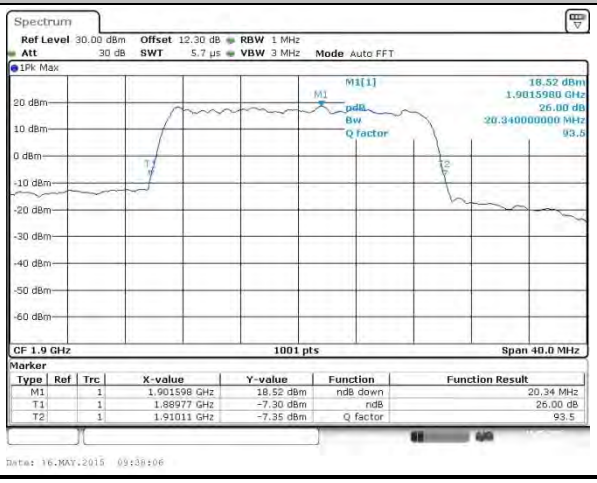
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM

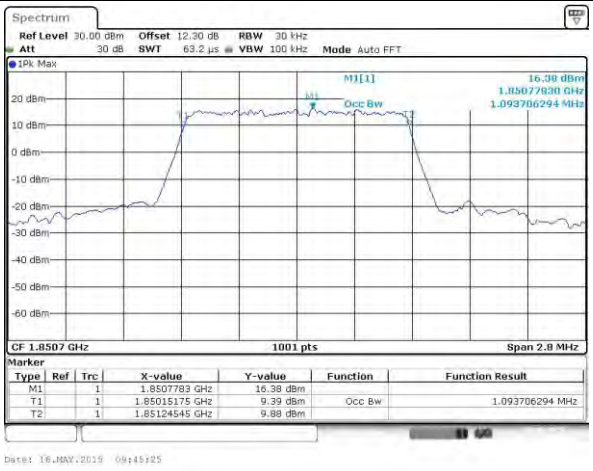


Occupied Bandwidth

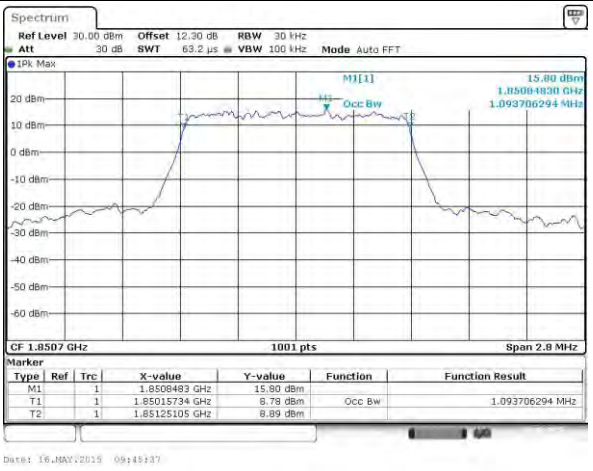
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.73	2.71	4.51	4.5	9.07	9.03	13.49	13.49	18.42	18.46
Middle CH	1.09	1.09	2.72	2.73	4.51	4.5	9.09	9.05	13.52	13.46	18.34	18.34
Highest CH	1.1	1.1	2.72	2.72	4.51	4.51	9.09	9.03	13.49	13.43	18.38	18.38

LTE Band 2

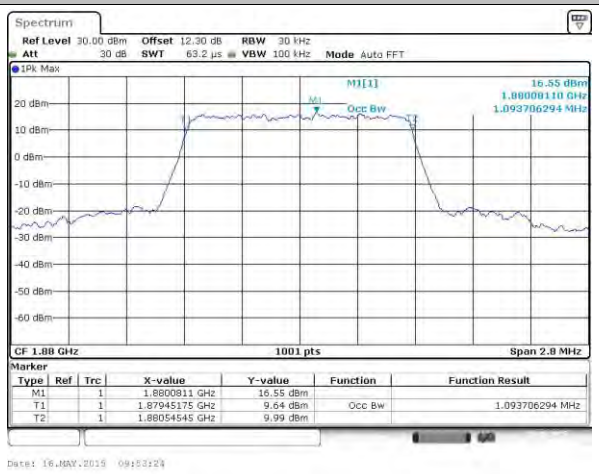
Lowest Channel / 1.4MHz / QPSK



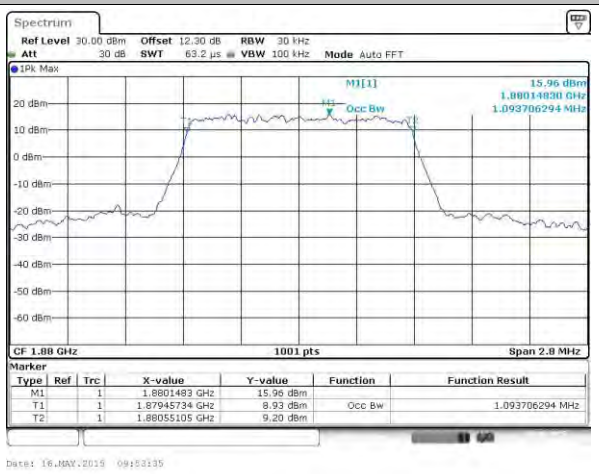
Lowest Channel / 1.4MHz / 16QAM



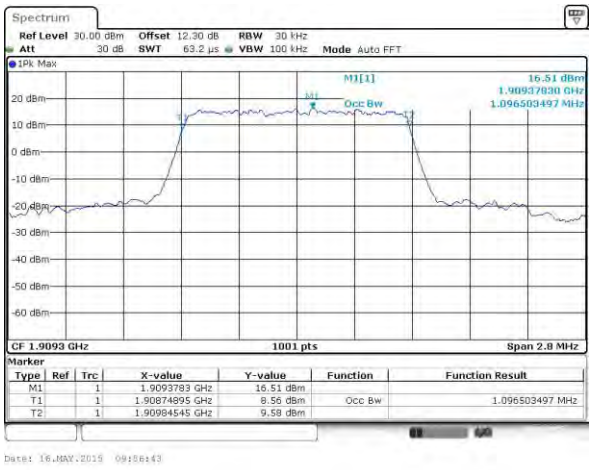
Middle Channel / 1.4MHz / QPSK



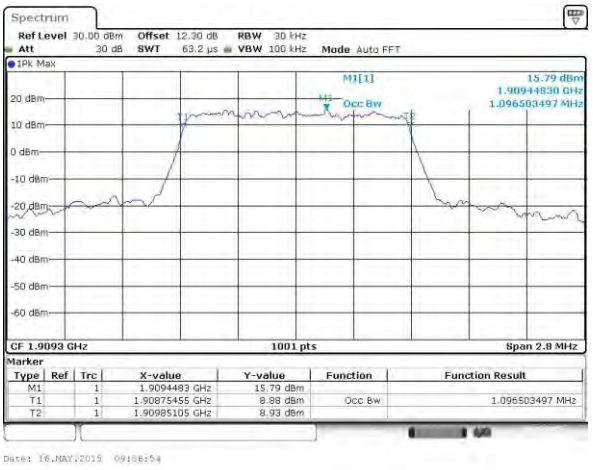
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

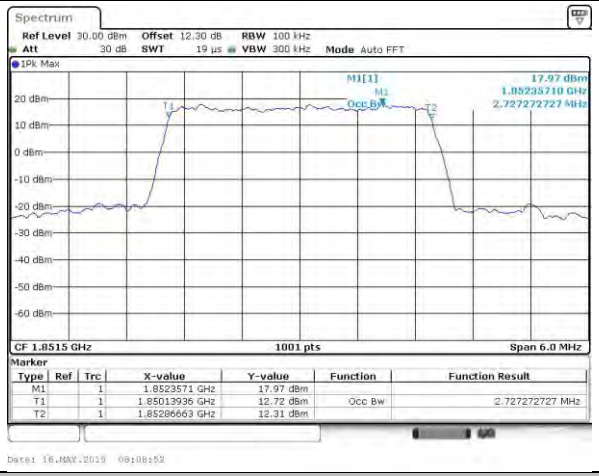


Highest Channel / 1.4MHz / 16QAM

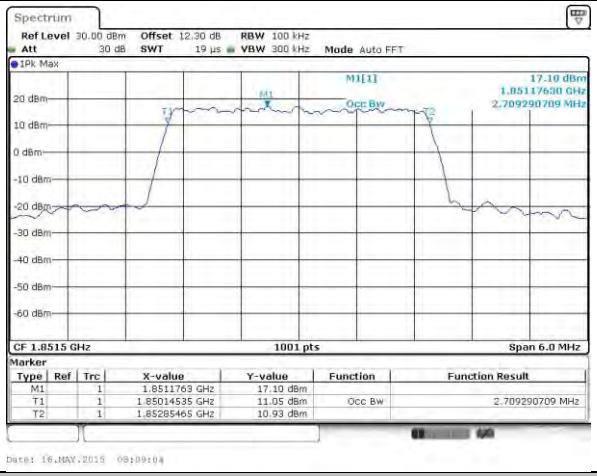


LTE Band 2

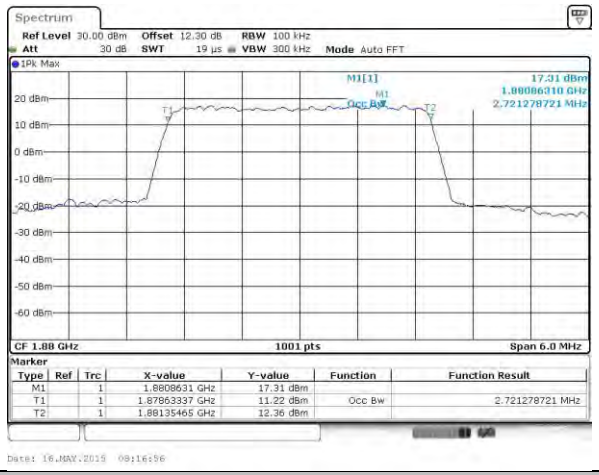
Lowest Channel / 3MHz / QPSK



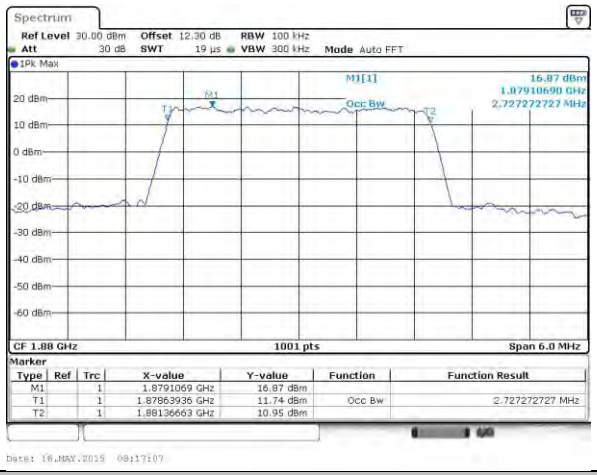
Lowest Channel / 3MHz / 16QAM



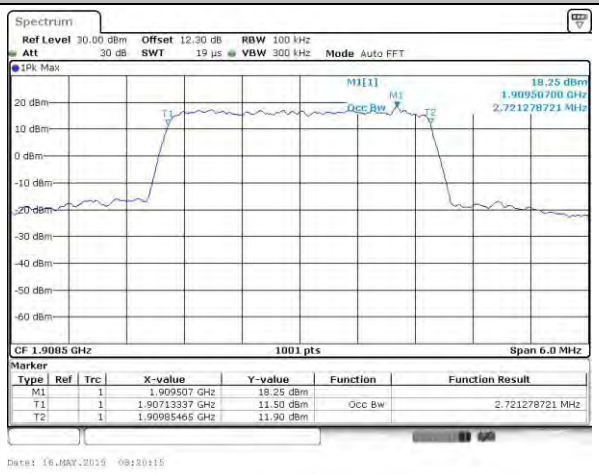
Middle Channel / 3MHz / QPSK



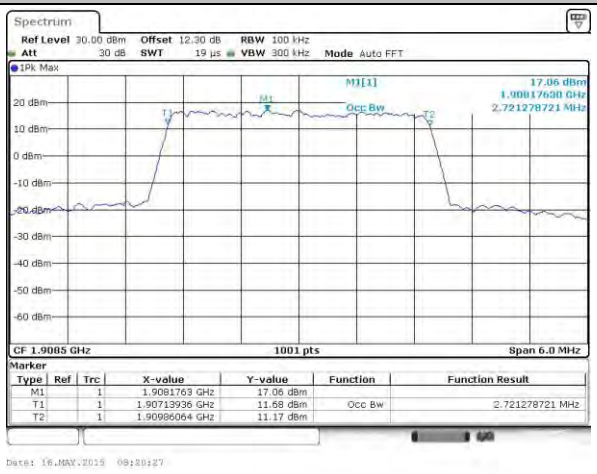
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

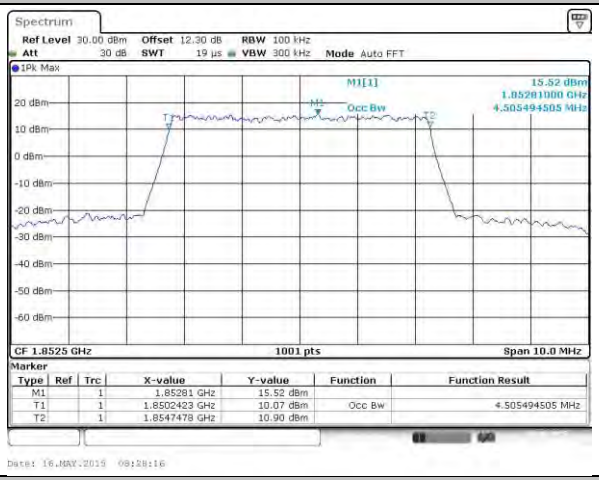


Highest Channel / 3MHz / 16QAM

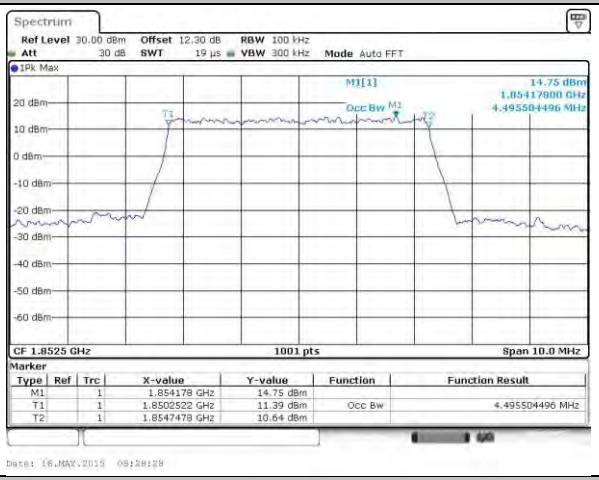


LTE Band 2

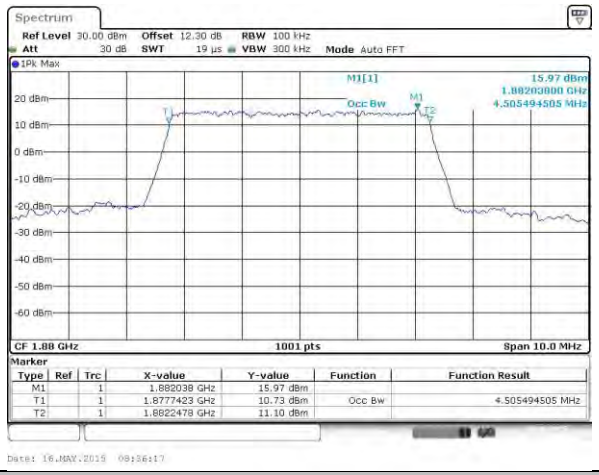
Lowest Channel / 5MHz / QPSK



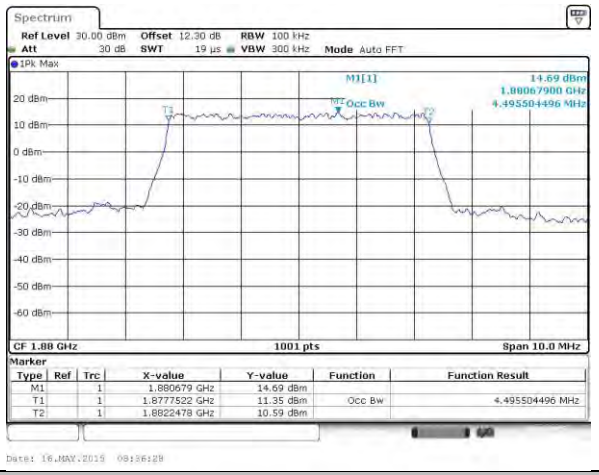
Lowest Channel / 5MHz / 16QAM



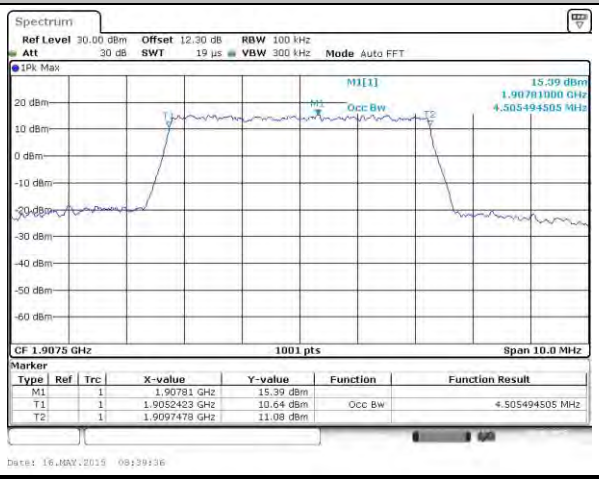
Middle Channel / 5MHz / QPSK



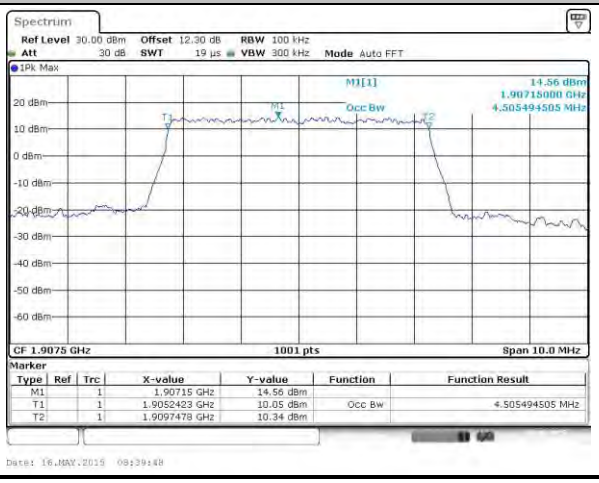
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

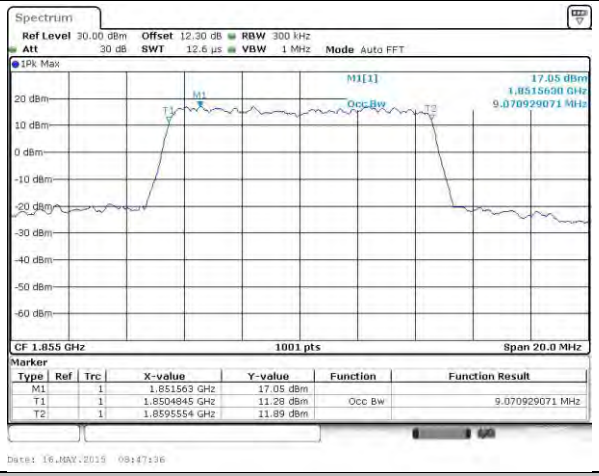


Highest Channel / 5MHz / 16QAM

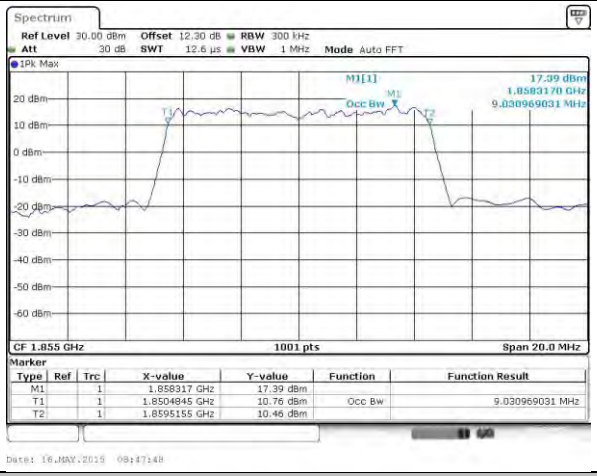


LTE Band 2

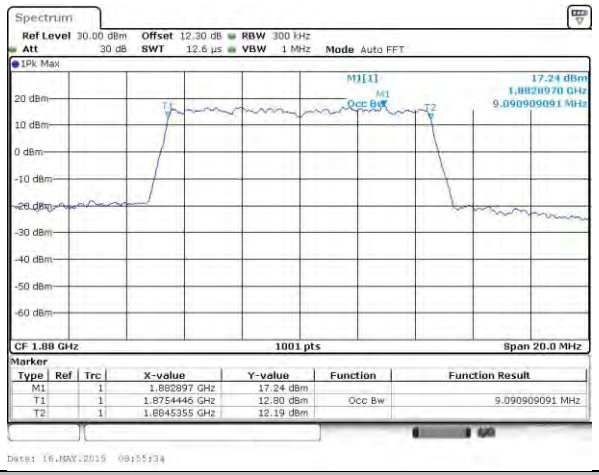
Lowest Channel / 10MHz / QPSK



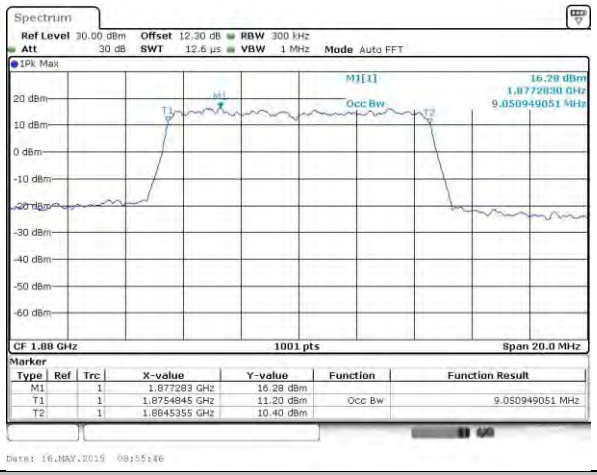
Lowest Channel / 10MHz / 16QAM



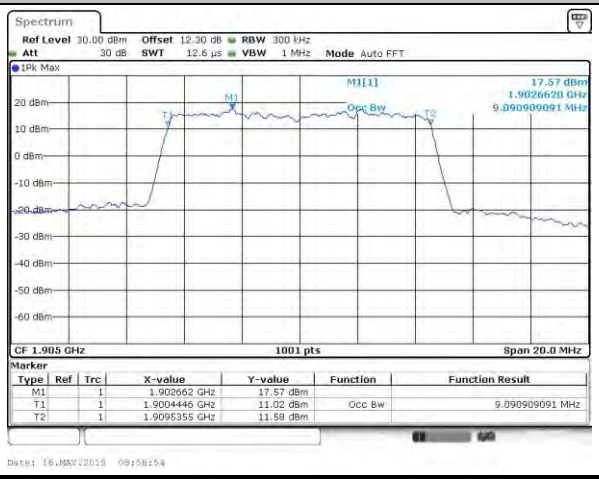
Middle Channel / 10MHz / QPSK



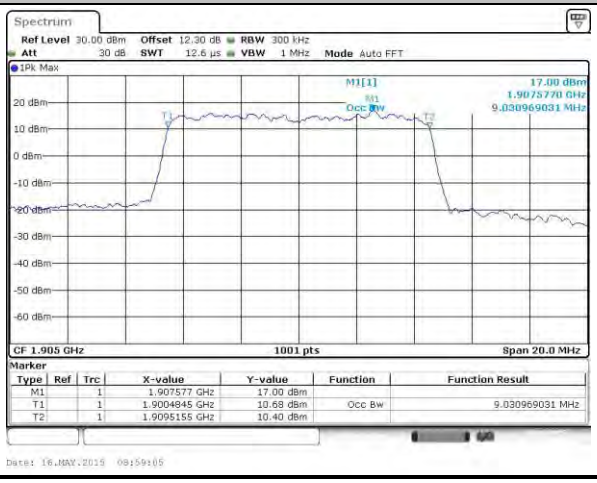
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

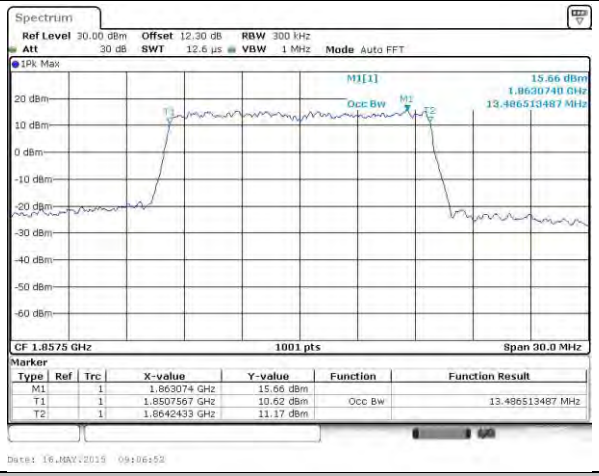


Highest Channel / 10MHz / 16QAM

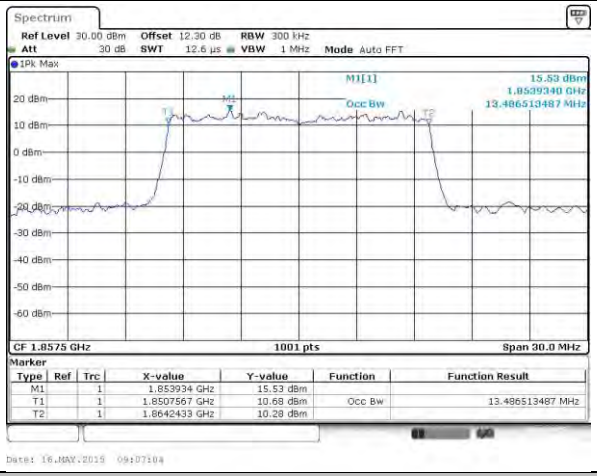


LTE Band 2

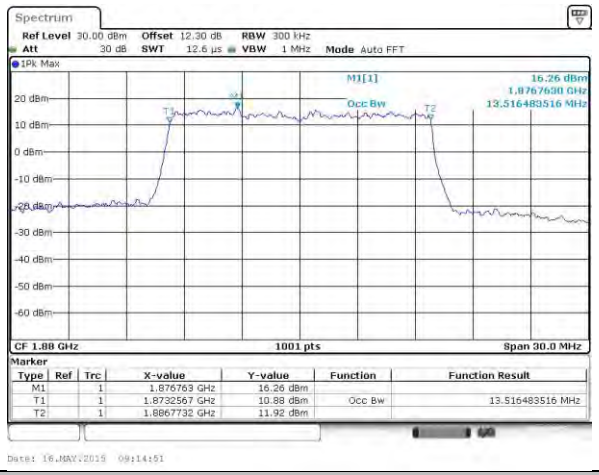
Lowest Channel / 15MHz / QPSK



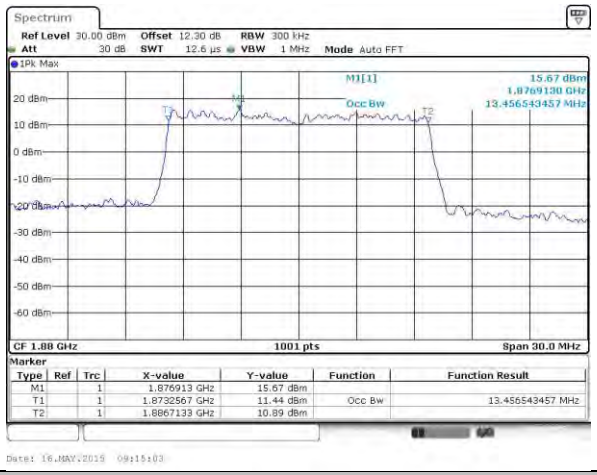
Lowest Channel / 15MHz / 16QAM



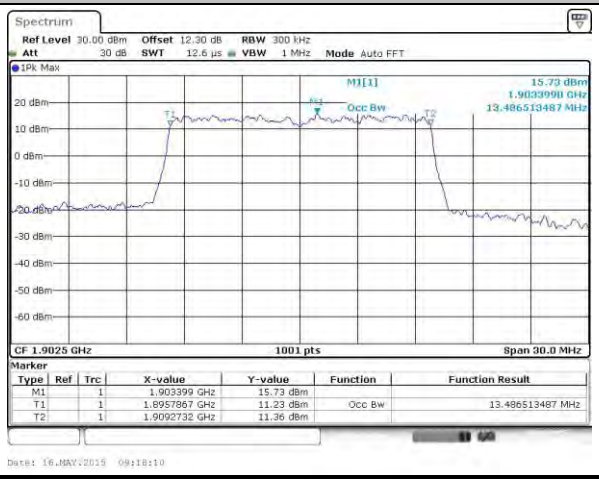
Middle Channel / 15MHz / QPSK



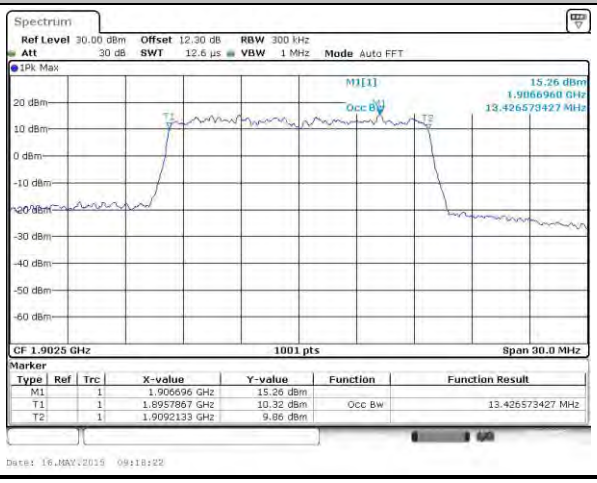
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

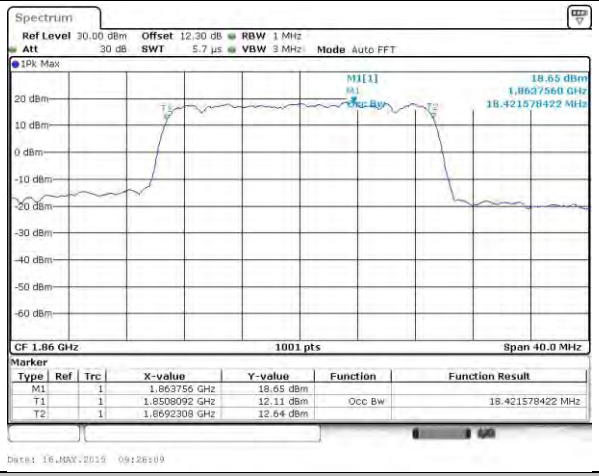


Highest Channel / 15MHz / 16QAM

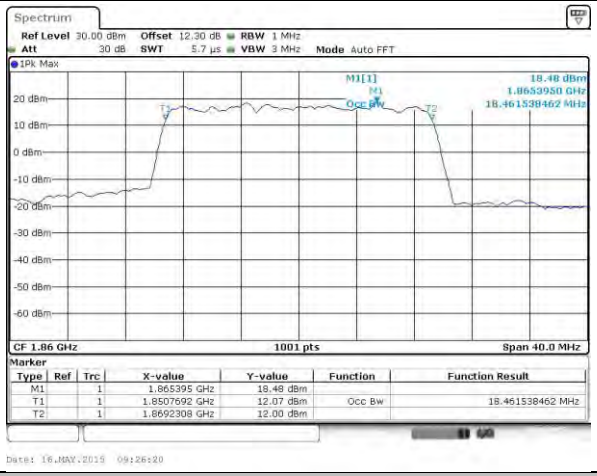


LTE Band 2

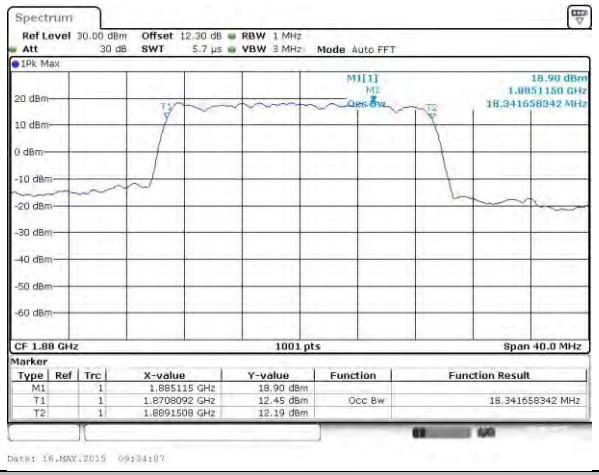
Lowest Channel / 20MHz / QPSK



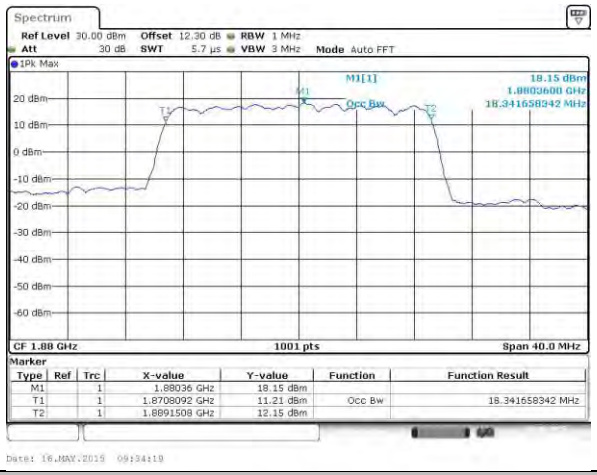
Lowest Channel / 20MHz / 16QAM



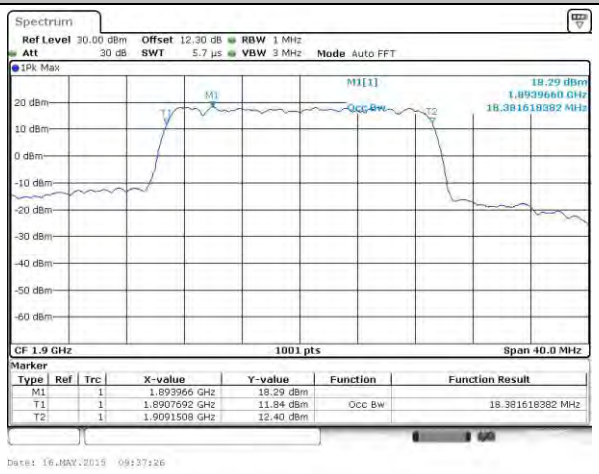
Middle Channel / 20MHz / QPSK



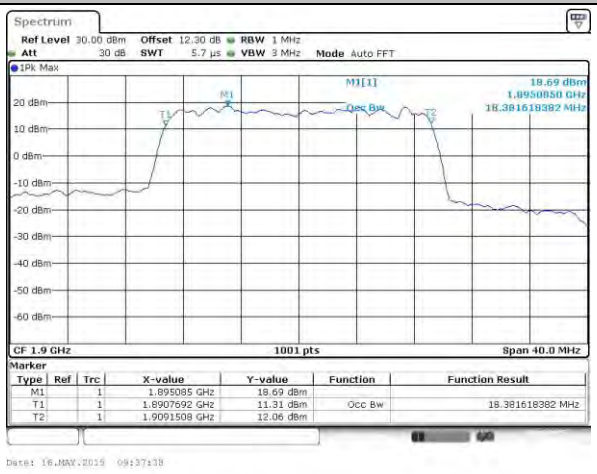
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



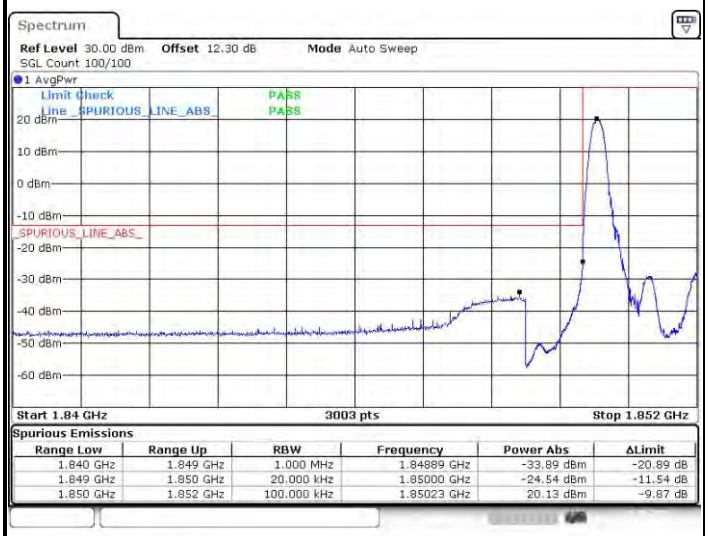
Highest Channel / 20MHz / 16QAM



Conducted Band Edge

LTE Band 2 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

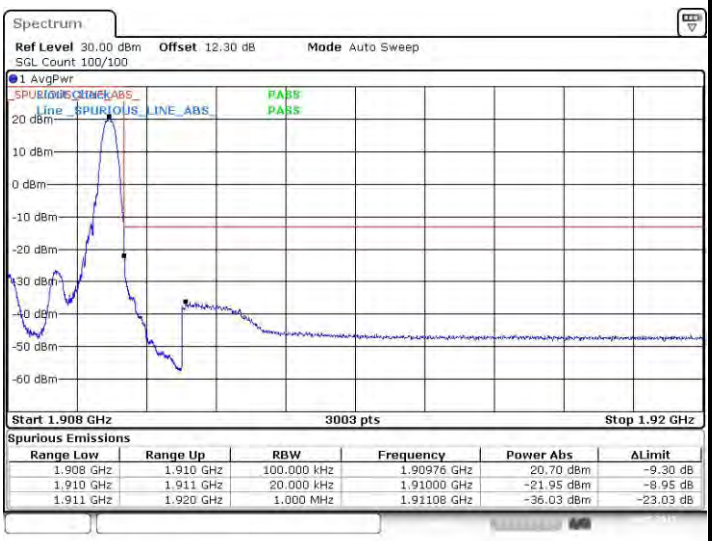


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84889 GHz	-33.89 dBm	-20.89 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-24.54 dBm	-11.54 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85023 GHz	20.13 dBm	-9.87 dB

Date: 16.MAY.2015 09:47:14

Highest Band Edge / 1RB

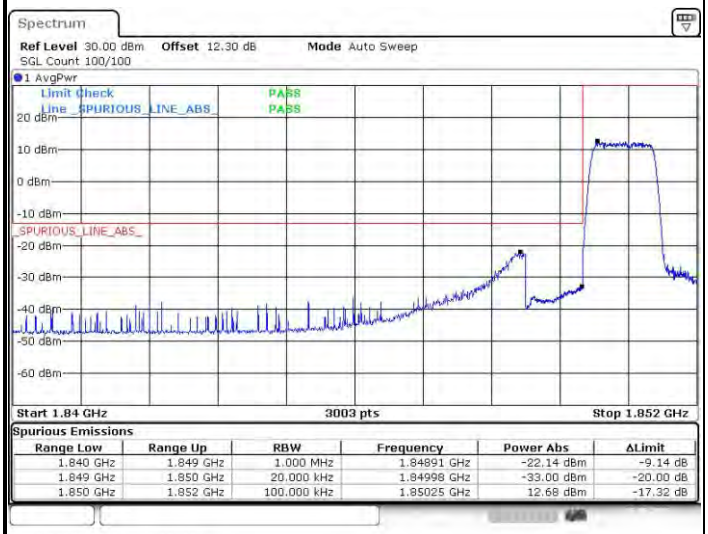


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90976 GHz	20.70 dBm	-9.30 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91000 GHz	-21.95 dBm	-8.95 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91108 GHz	-36.03 dBm	-23.03 dB

Date: 16.MAY.2015 09:58:32

Lowest Band Edge / Full RB

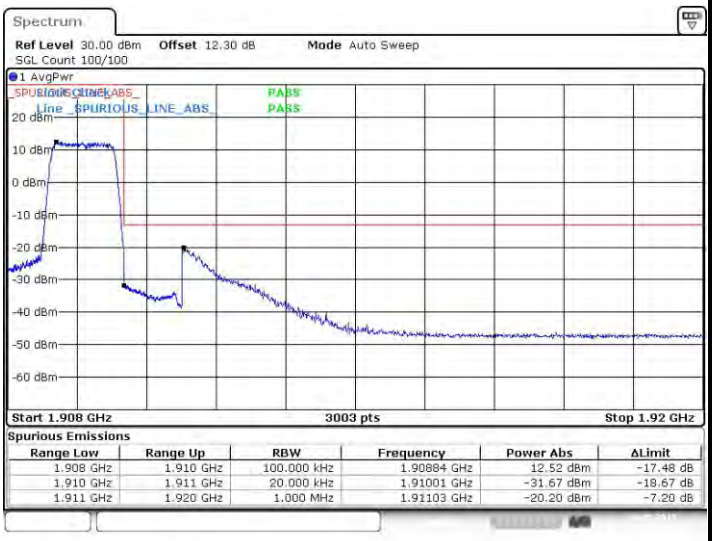


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84891 GHz	-22.14 dBm	-9.14 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.84998 GHz	-33.00 dBm	-20.00 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85025 GHz	12.68 dBm	-17.32 dB

Date: 16.MAY.2015 10:10:24

Highest Band Edge / Full RB



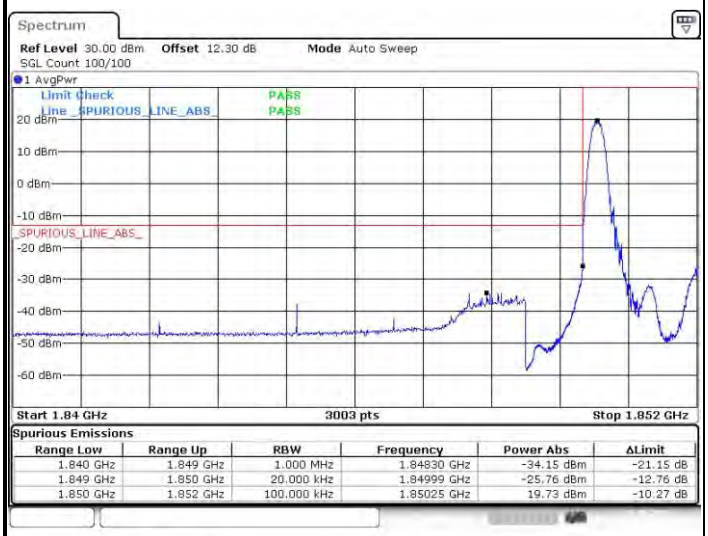
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90884 GHz	12.52 dBm	-17.48 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91001 GHz	-31.67 dBm	-18.67 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91103 GHz	-20.20 dBm	-7.20 dB

Date: 16.MAY.2015 10:00:52

LTE Band 2 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

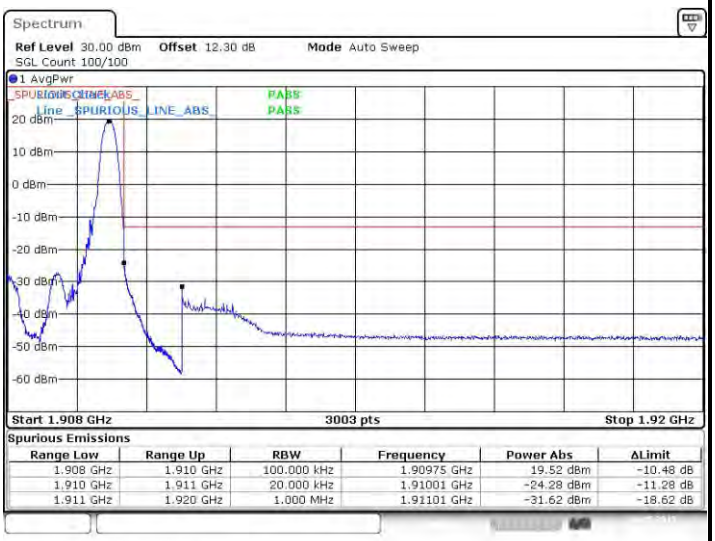


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84830 GHz	-34.15 dBm	-21.15 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.84999 GHz	-25.76 dBm	-12.76 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85025 GHz	19.73 dBm	-10.27 dB

Date: 16.MAY.2015 09:48:24

Highest Band Edge / 1 RB

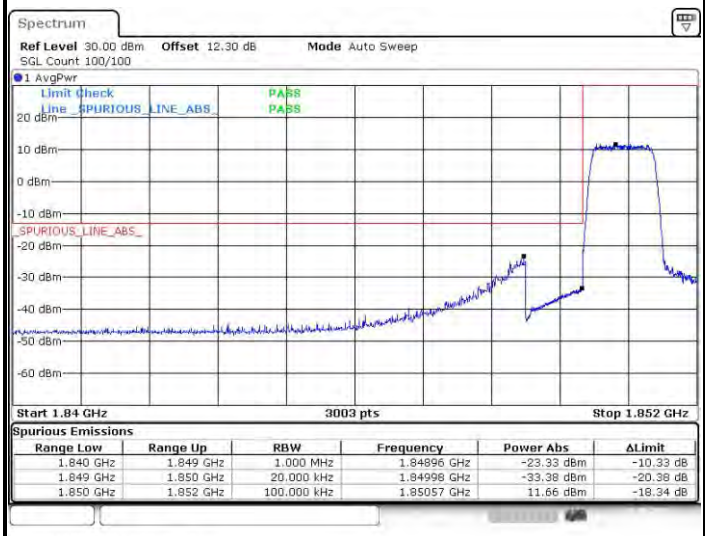


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90975 GHz	19.52 dBm	-10.48 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91001 GHz	-24.28 dBm	-11.28 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91101 GHz	-31.62 dBm	-18.62 dB

Date: 16.MAY.2015 09:59:41

Lowest Band Edge / Full RB

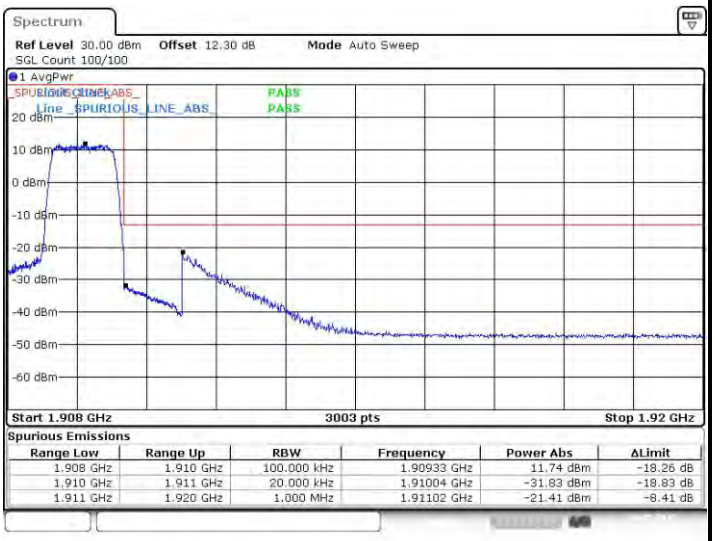


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84896 GHz	-23.33 dBm	-10.33 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.84998 GHz	-33.38 dBm	-20.38 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85057 GHz	11.66 dBm	-18.34 dB

Date: 16.MAY.2015 09:50:44

Highest Band Edge / Full RB



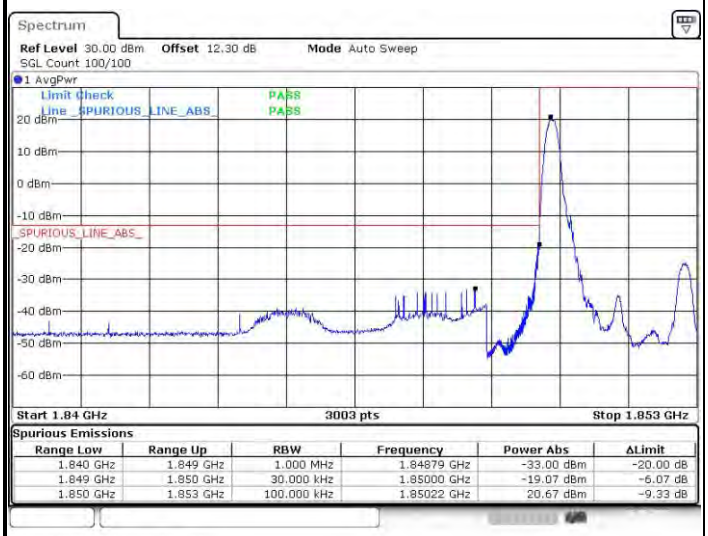
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90933 GHz	11.74 dBm	-18.26 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91004 GHz	-31.83 dBm	-18.83 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91102 GHz	-21.41 dBm	-8.41 dB

Date: 16.MAY.2015 10:02:02

LTE Band 2 / 3MHz / QPSK

Lowest Band Edge / 1RB

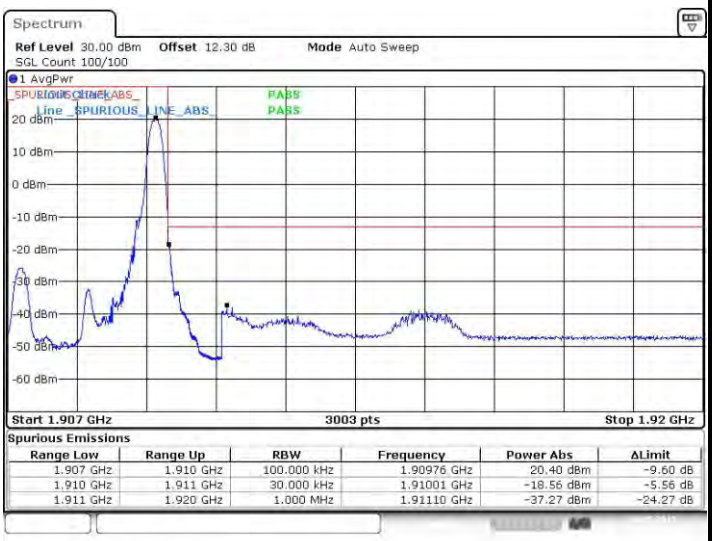


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84879 GHz	-33.00 dBm	-20.00 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-19.07 dBm	-6.07 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85022 GHz	20.67 dBm	-9.33 dB

Date: 16.MAY.2015 08:10:43

Highest Band Edge / 1 RB

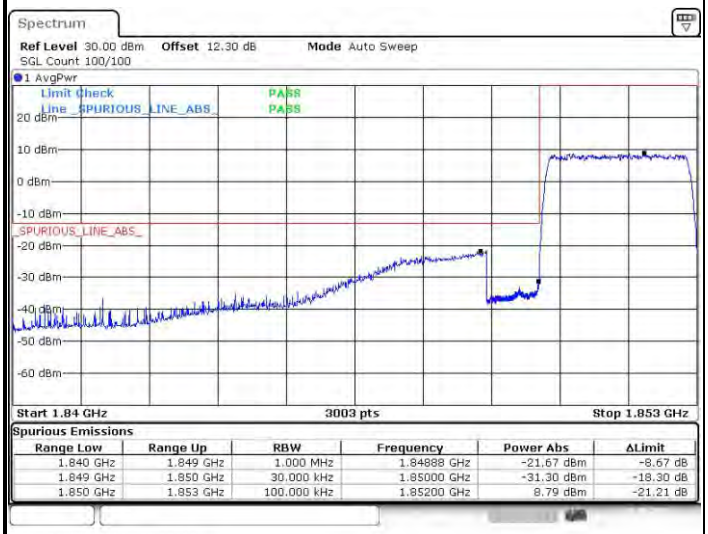


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90976 GHz	20.40 dBm	-9.60 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91001 GHz	-18.56 dBm	-5.56 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91110 GHz	-37.27 dBm	-24.27 dB

Date: 16.MAY.2015 08:22:05

Lowest Band Edge / Full RB

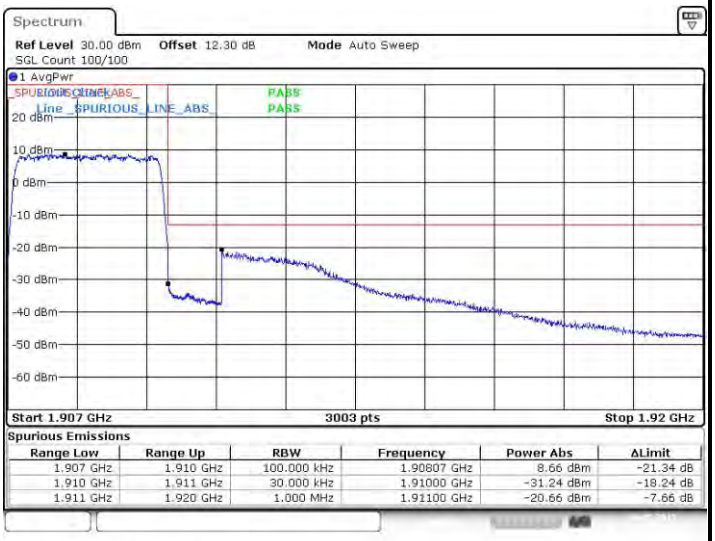


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84888 GHz	-21.67 dBm	-8.67 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-31.30 dBm	-18.30 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85200 GHz	8.79 dBm	-21.21 dB

Date: 16.MAY.2015 08:13:04

Highest Band Edge / Full RB



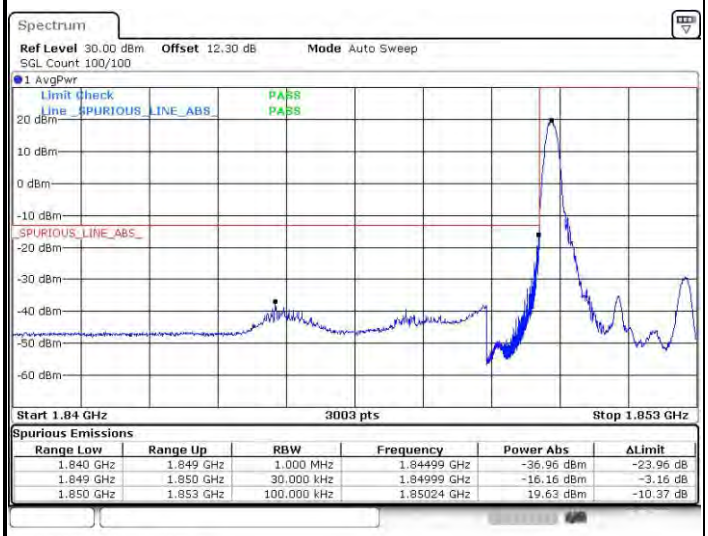
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90807 GHz	8.66 dBm	-21.34 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-31.24 dBm	-18.24 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-20.66 dBm	-7.66 dB

Date: 16.MAY.2015 08:24:25

LTE Band 2 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

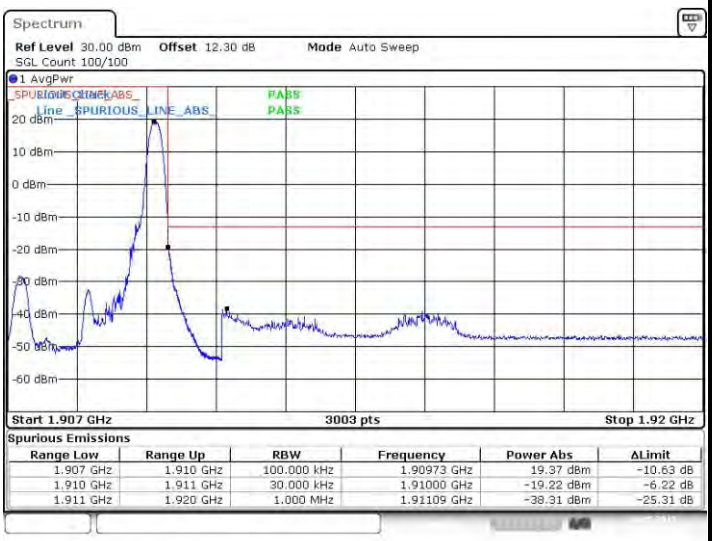


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84499 GHz	-36.96 dBm	-23.96 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.84999 GHz	-16.16 dBm	-3.16 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85024 GHz	19.63 dBm	-10.37 dB

Date: 16.MAY.2015 08:11:53

Highest Band Edge /1 RB

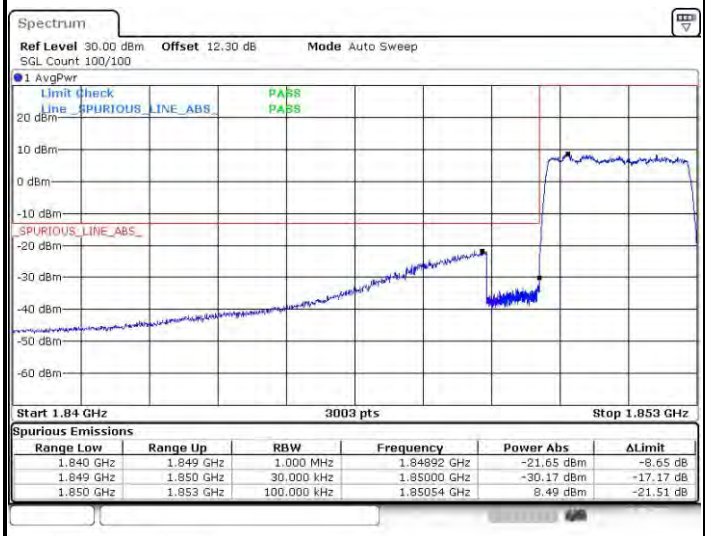


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90973 GHz	19.37 dBm	-10.63 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-19.22 dBm	-6.22 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-38.31 dBm	-25.31 dB

Date: 16.MAY.2015 08:23:15

Lowest Band Edge / Full RB

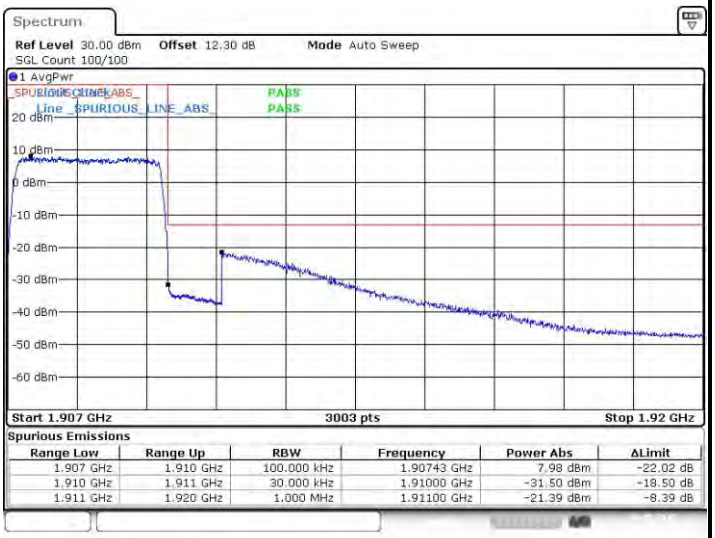


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84892 GHz	-21.65 dBm	-8.65 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-30.17 dBm	-17.17 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85054 GHz	8.49 dBm	-21.51 dB

Date: 16.MAY.2015 08:14:15

Highest Band Edge / Full RB



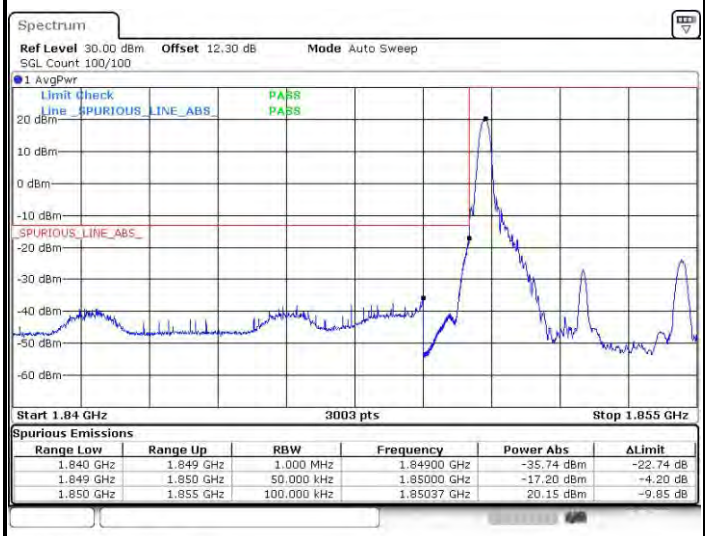
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90743 GHz	7.98 dBm	-22.02 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-31.50 dBm	-18.50 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-21.39 dBm	-8.39 dB

Date: 16.MAY.2015 08:25:35

LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / 1 RB

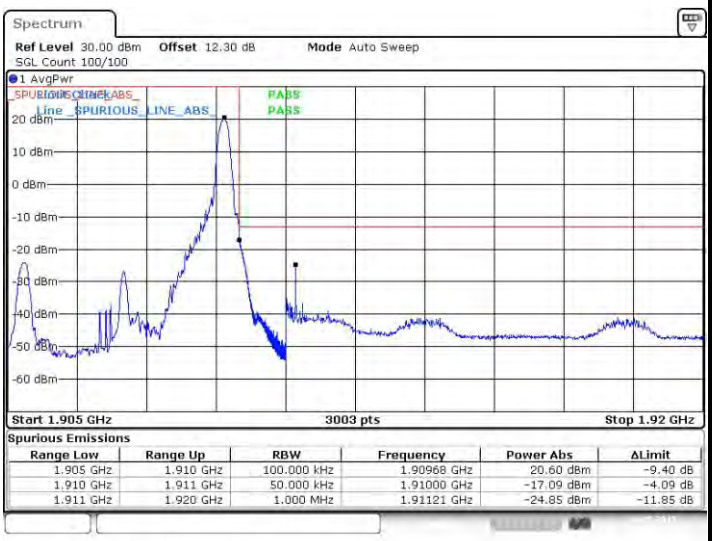


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-35.74 dBm	-22.74 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-17.20 dBm	-4.20 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85037 GHz	20.15 dBm	-9.85 dB

Date: 16.MAY.2015 08:30:05

Highest Band Edge / 1 RB

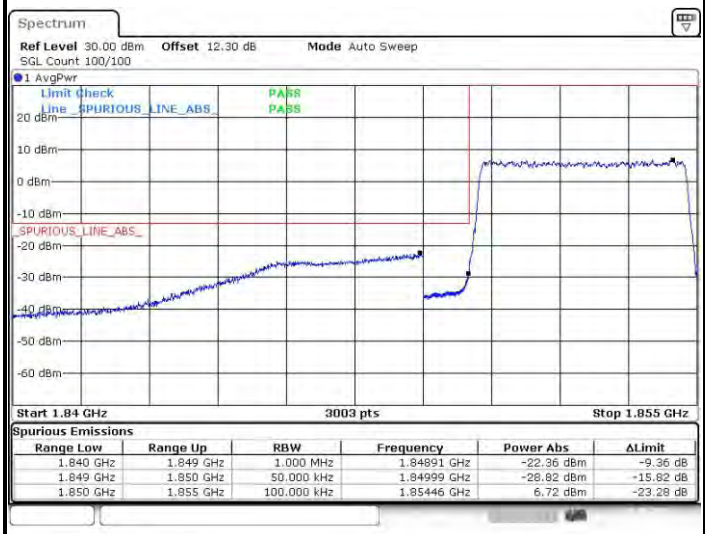


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90968 GHz	20.60 dBm	-9.40 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-17.09 dBm	-4.09 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91121 GHz	-24.85 dBm	-11.85 dB

Date: 16.MAY.2015 08:41:26

Lowest Band Edge / Full RB

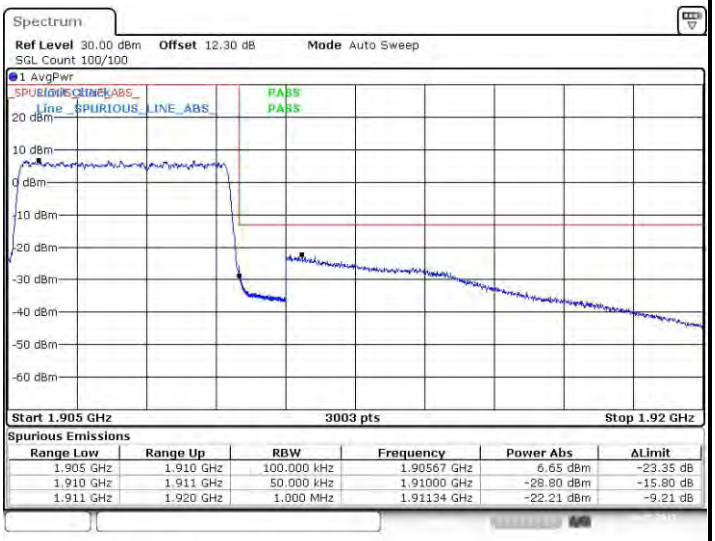


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84891 GHz	-22.36 dBm	-9.36 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.84999 GHz	-28.82 dBm	-15.82 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85446 GHz	6.72 dBm	-23.28 dB

Date: 16.MAY.2015 08:32:26

Highest Band Edge / Full RB



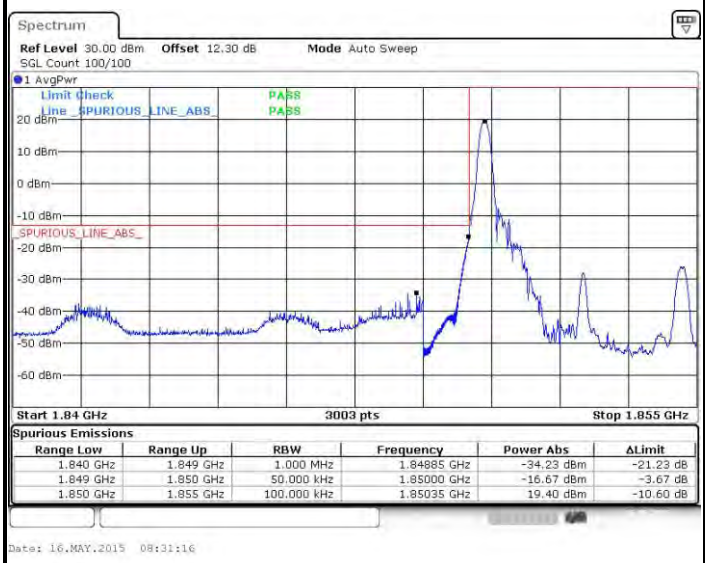
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90567 GHz	6.65 dBm	-23.35 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-28.80 dBm	-15.80 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91134 GHz	-22.21 dBm	-9.21 dB

Date: 16.MAY.2015 08:43:46

LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1RB

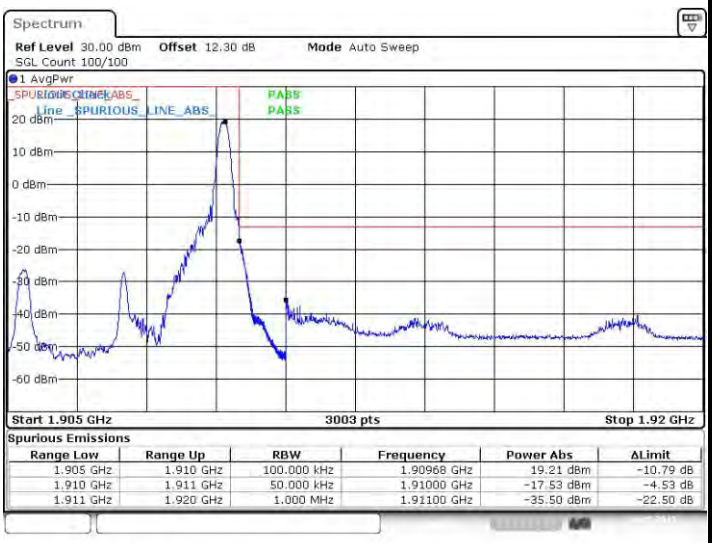


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84885 GHz	-34.23 dBm	-21.23 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-16.67 dBm	-3.67 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85035 GHz	19.40 dBm	-10.60 dB

Date: 16.MAY.2015 08:31:16

Highest Band Edge / 1 RB

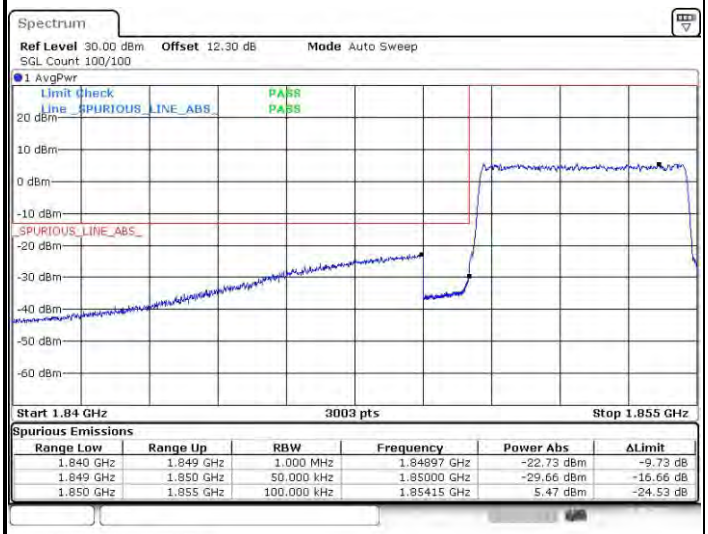


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90968 GHz	19.21 dBm	-10.79 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-17.53 dBm	-4.53 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-35.50 dBm	-22.50 dB

Date: 16.MAY.2015 08:42:36

Lowest Band Edge / Full RB

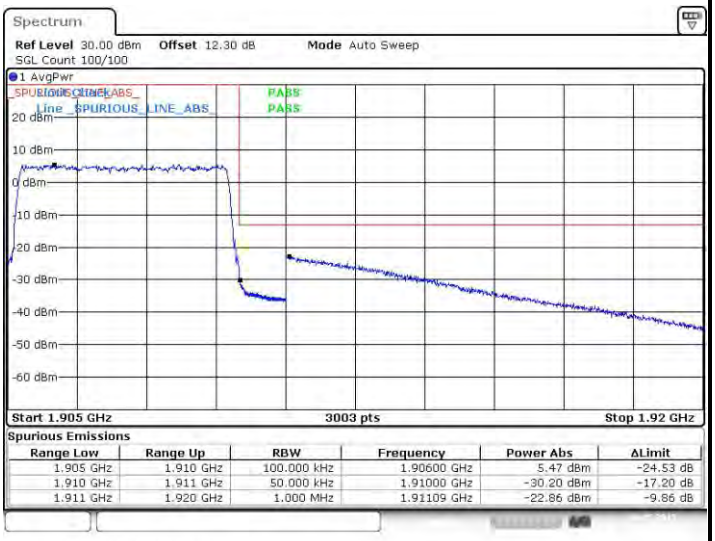


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84897 GHz	-22.73 dBm	-9.73 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-29.66 dBm	-16.66 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85415 GHz	5.47 dBm	-24.53 dB

Date: 16.MAY.2015 08:33:36

Highest Band Edge / Full RB



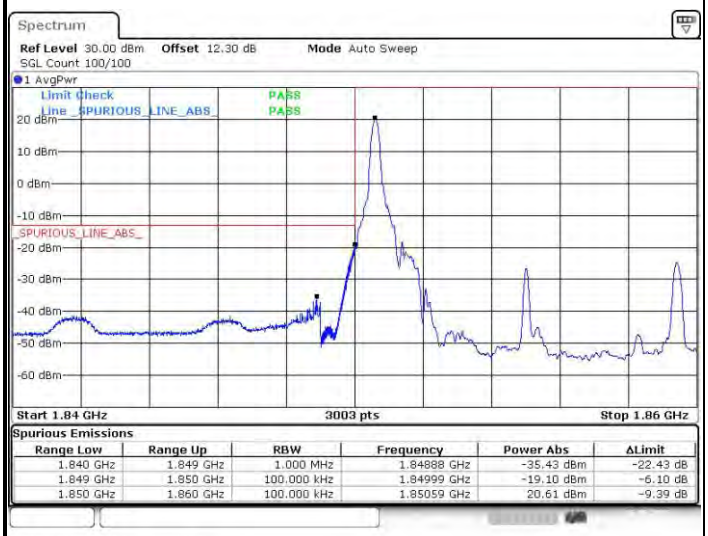
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90600 GHz	5.47 dBm	-24.53 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-30.20 dBm	-17.20 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-22.86 dBm	-9.86 dB

Date: 16.MAY.2015 08:44:56

LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB

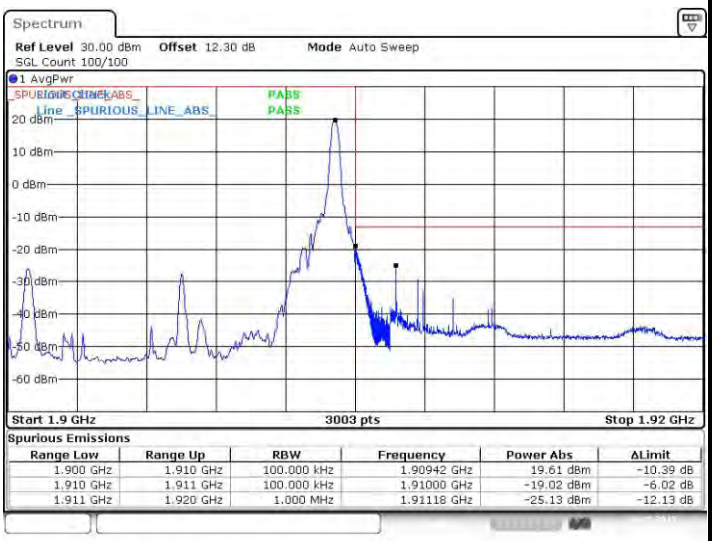


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84888 GHz	-35.43 dBm	-22.43 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84999 GHz	-19.10 dBm	-6.10 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85059 GHz	20.61 dBm	-9.39 dB

Date: 16.MAY.2015 08:49:25

Highest Band Edge / 1 RB

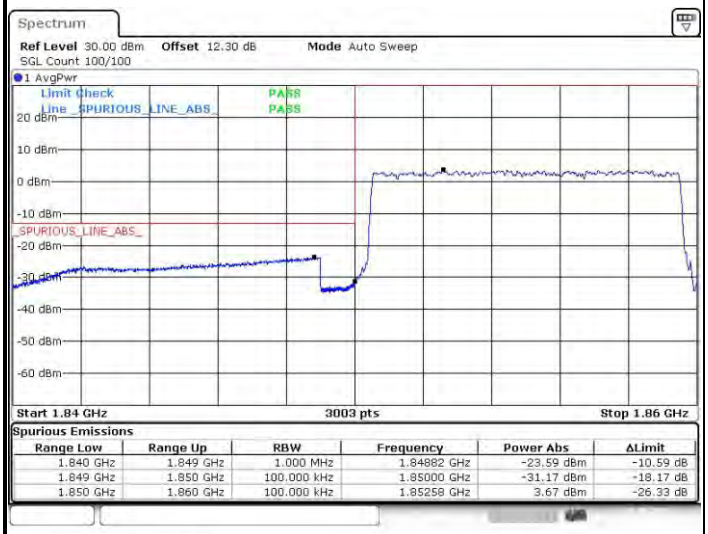


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90942 GHz	19.61 dBm	-10.39 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91000 GHz	-19.02 dBm	-6.02 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91118 GHz	-25.13 dBm	-12.13 dB

Date: 16.MAY.2015 09:00:42

Lowest Band Edge / Full RB

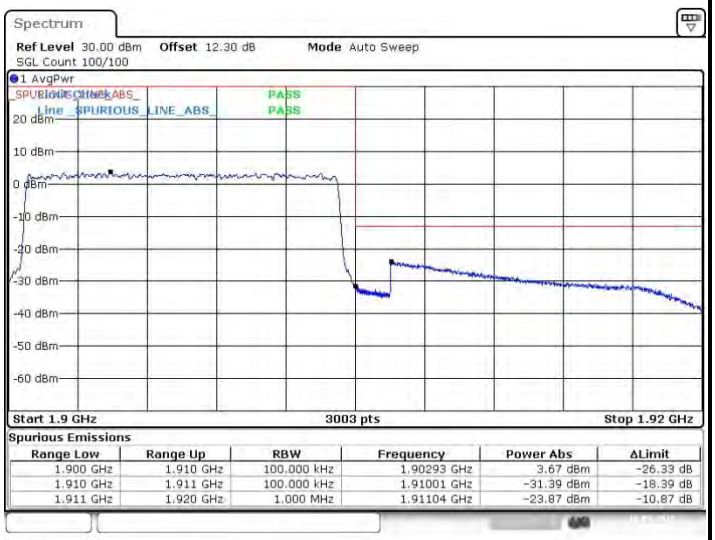


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84882 GHz	-23.59 dBm	-10.59 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.85000 GHz	-31.17 dBm	-18.17 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85258 GHz	3.67 dBm	-26.33 dB

Date: 16.MAY.2015 08:51:45

Highest Band Edge / Full RB



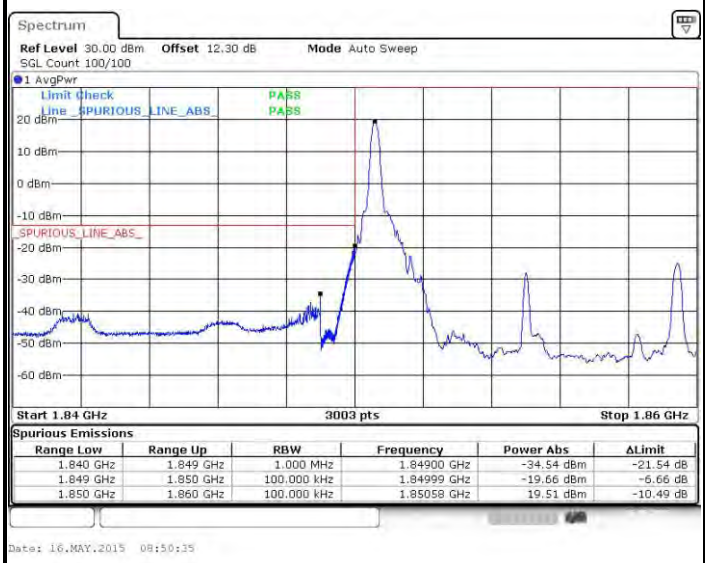
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90293 GHz	3.67 dBm	-26.33 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91001 GHz	-31.39 dBm	-18.39 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91104 GHz	-23.87 dBm	-10.87 dB

Date: 16.MAY.2015 09:03:02

LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

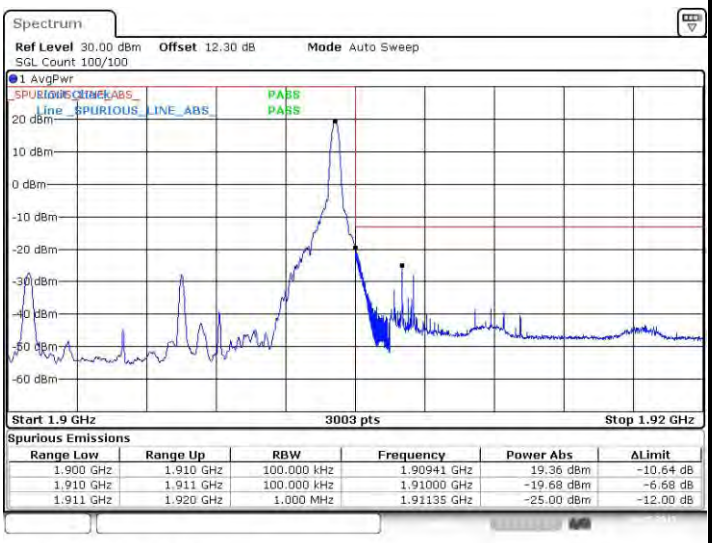


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-34.54 dBm	-21.54 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84999 GHz	-19.66 dBm	-6.66 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85058 GHz	19.51 dBm	-10.49 dB

Date: 16.MAY.2015 08:50:35

Highest Band Edge / 1 RB

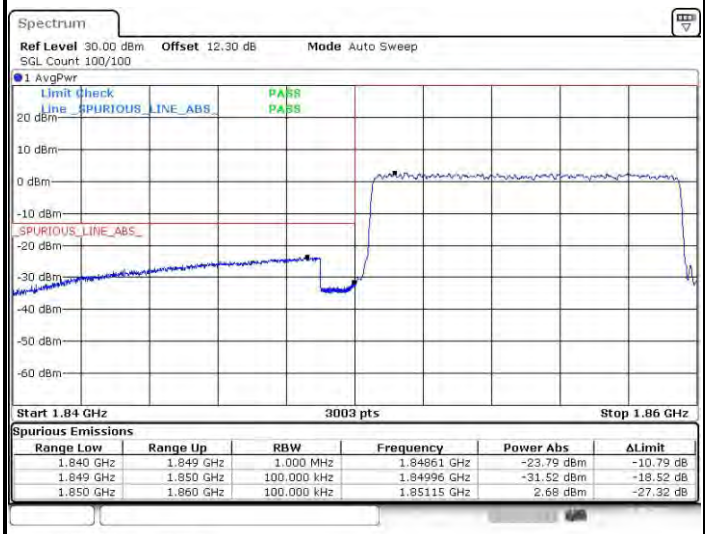


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90941 GHz	19.36 dBm	-10.64 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91000 GHz	-19.68 dBm	-6.68 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91135 GHz	-25.00 dBm	-12.00 dB

Date: 16.MAY.2015 09:01:52

Lowest Band Edge / Full RB

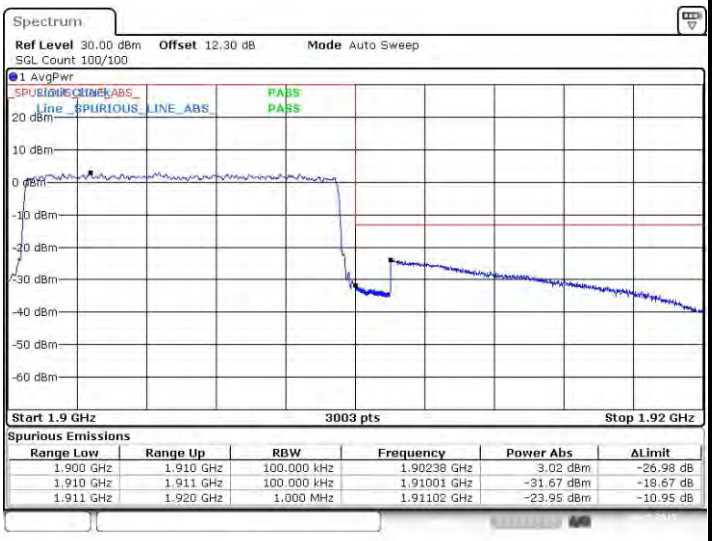


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84861 GHz	-23.79 dBm	-10.79 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84996 GHz	-31.52 dBm	-18.52 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85115 GHz	2.68 dBm	-27.32 dB

Date: 16.MAY.2015 08:52:55

Highest Band Edge / Full RB



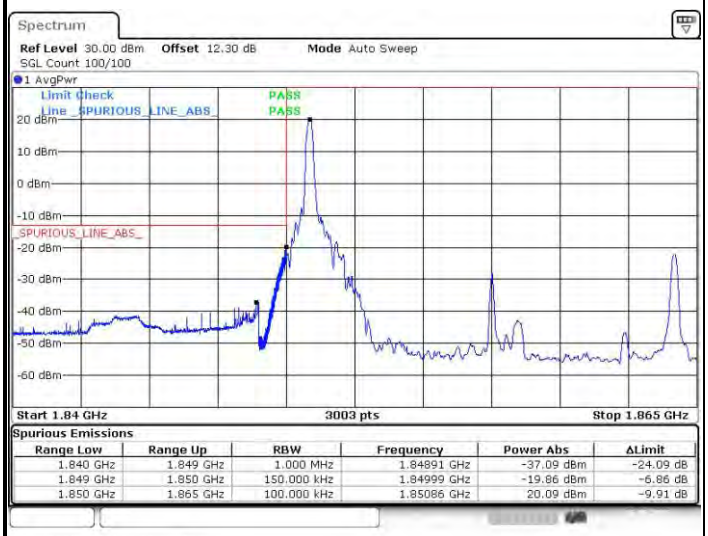
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90238 GHz	3.02 dBm	-26.98 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91001 GHz	-31.67 dBm	-18.67 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91102 GHz	-23.95 dBm	-10.95 dB

Date: 16.MAY.2015 09:04:12

LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB

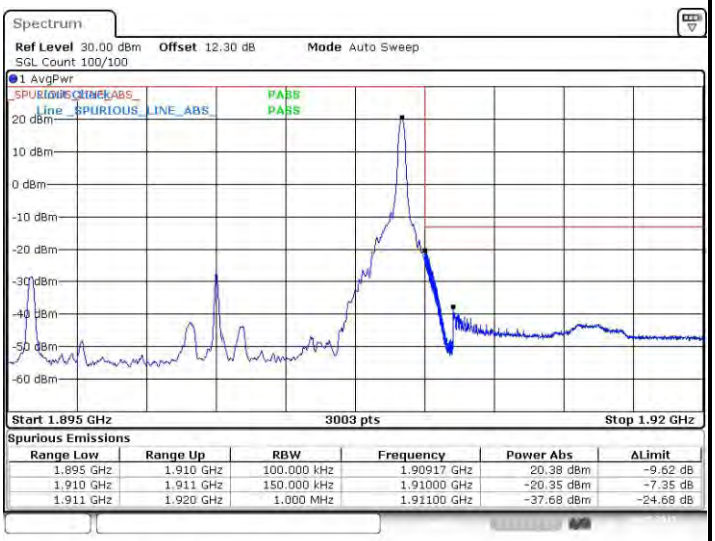


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84891 GHz	-37.09 dBm	-24.09 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.84999 GHz	-19.86 dBm	-6.86 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85086 GHz	20.09 dBm	-9.91 dB

Date: 16.MAY.2015 09:08:41

Highest Band Edge / 1 RB

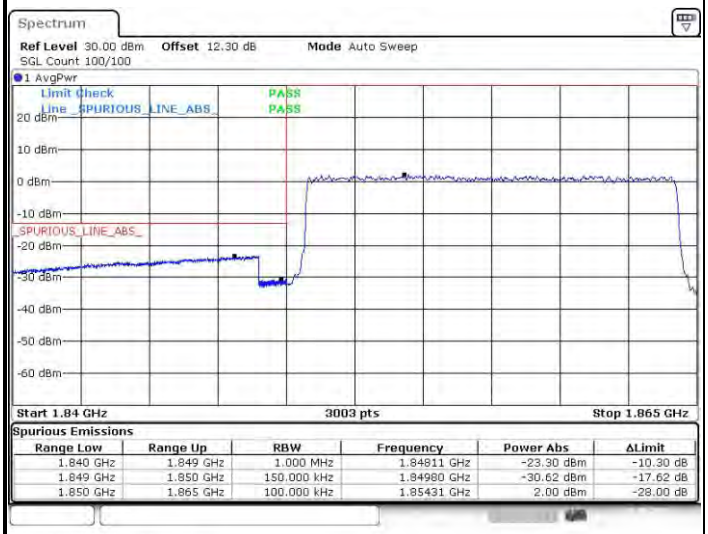


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90917 GHz	20.38 dBm	-9.62 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91000 GHz	-20.35 dBm	-7.35 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-37.68 dBm	-24.68 dB

Date: 16.MAY.2015 09:19:59

Lowest Band Edge / Full RB

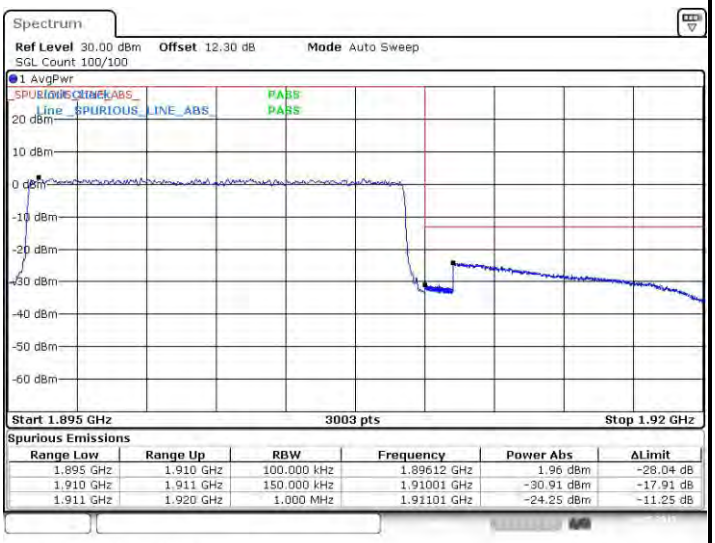


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84811 GHz	-23.30 dBm	-10.30 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.84980 GHz	-30.62 dBm	-17.62 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85431 GHz	2.00 dBm	-28.00 dB

Date: 16.MAY.2015 09:11:01

Highest Band Edge / Full RB



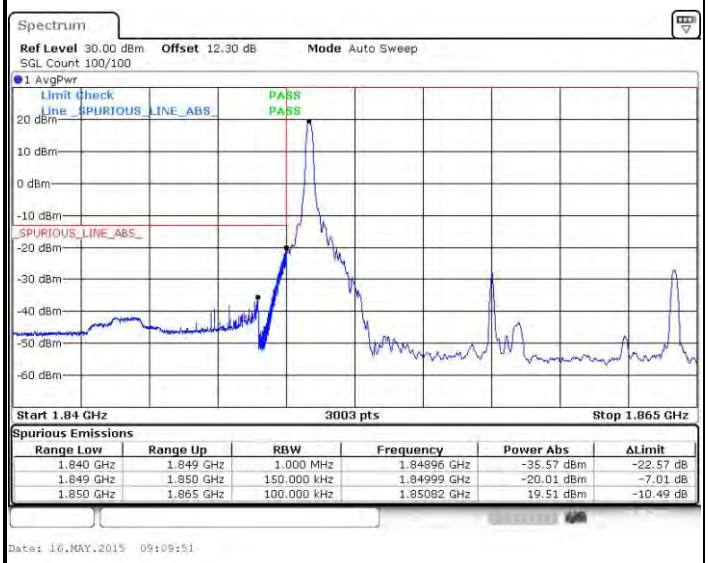
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.89612 GHz	1.96 dBm	-28.04 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91001 GHz	-30.91 dBm	-17.91 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91101 GHz	-24.25 dBm	-11.25 dB

Date: 16.MAY.2015 09:22:19

LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

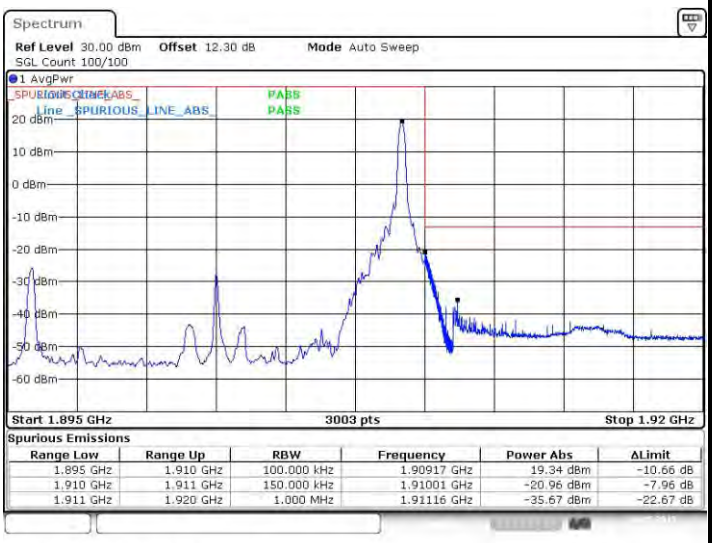


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84896 GHz	-35.57 dBm	-22.57 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.84999 GHz	-20.01 dBm	-7.01 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85082 GHz	19.51 dBm	-10.49 dB

Date: 16.MAY.2015 09:09:51

Highest Band Edge / 1 RB

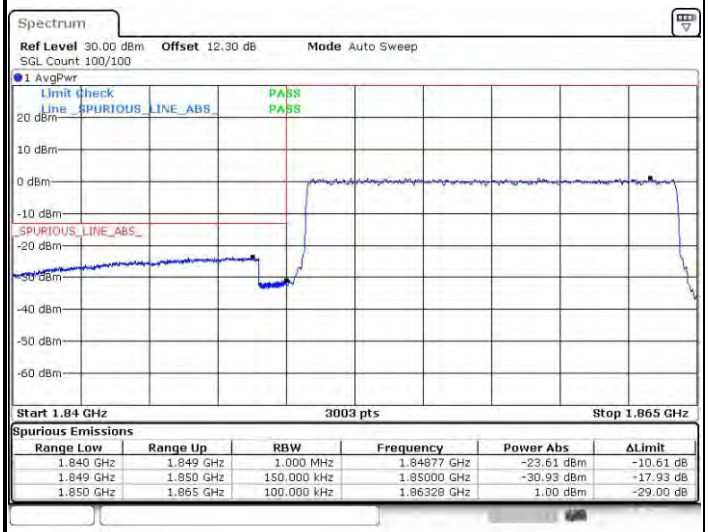


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90917 GHz	19.34 dBm	-10.66 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91001 GHz	-20.96 dBm	-7.96 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91116 GHz	-35.67 dBm	-22.67 dB

Date: 16.MAY.2015 09:21:09

Lowest Band Edge / Full RB

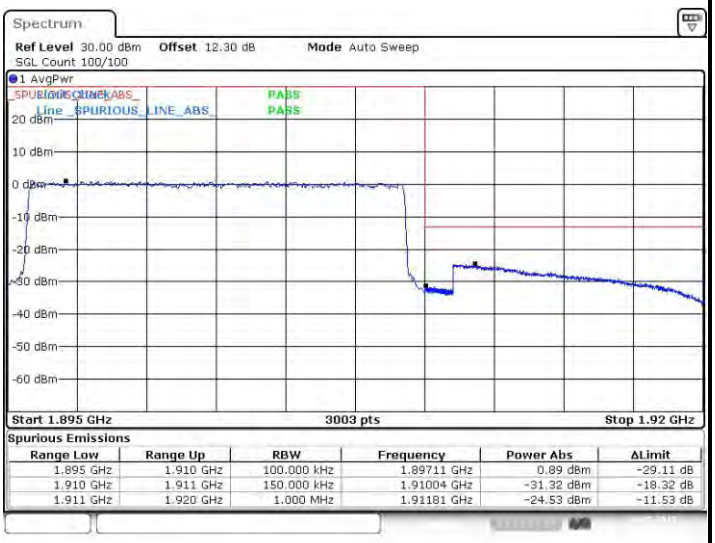


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84877 GHz	-23.61 dBm	-10.61 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.85000 GHz	-30.93 dBm	-17.93 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.86328 GHz	1.00 dBm	-29.00 dB

Date: 16.MAY.2015 09:12:11

Highest Band Edge / Full RB



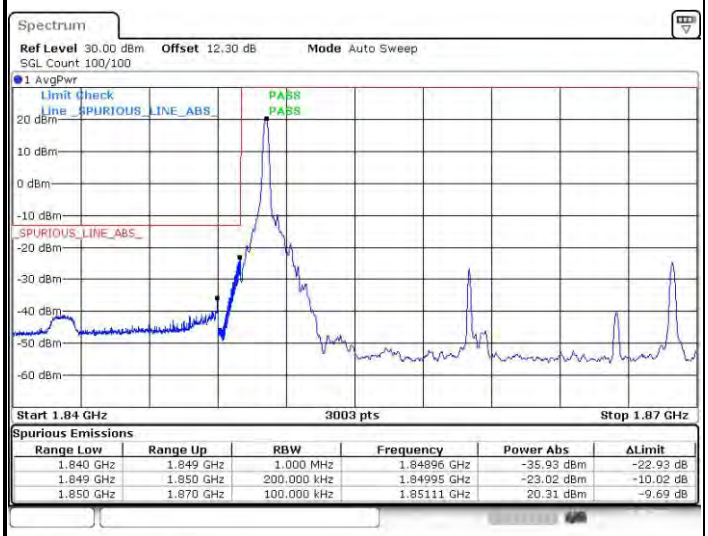
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.89711 GHz	0.89 dBm	-29.11 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91004 GHz	-31.32 dBm	-18.32 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91181 GHz	-24.53 dBm	-11.53 dB

Date: 16.MAY.2015 09:23:29

LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB

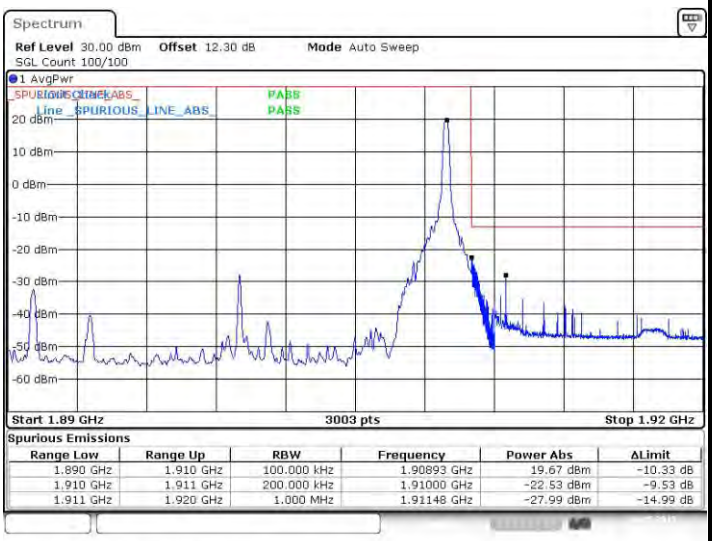


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84896 GHz	-35.93 dBm	-22.93 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84995 GHz	-23.02 dBm	-10.02 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85111 GHz	20.31 dBm	-9.69 dB

Date: 16.MAY.2015 09:27:58

Highest Band Edge / 1 RB

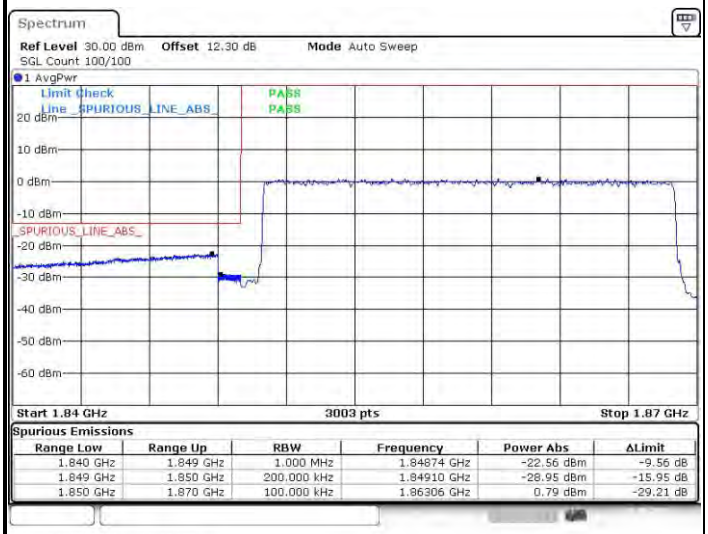


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90893 GHz	19.67 dBm	-10.33 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91000 GHz	-22.53 dBm	-9.53 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91148 GHz	-27.99 dBm	-14.99 dB

Date: 16.MAY.2015 09:39:15

Lowest Band Edge / Full RB

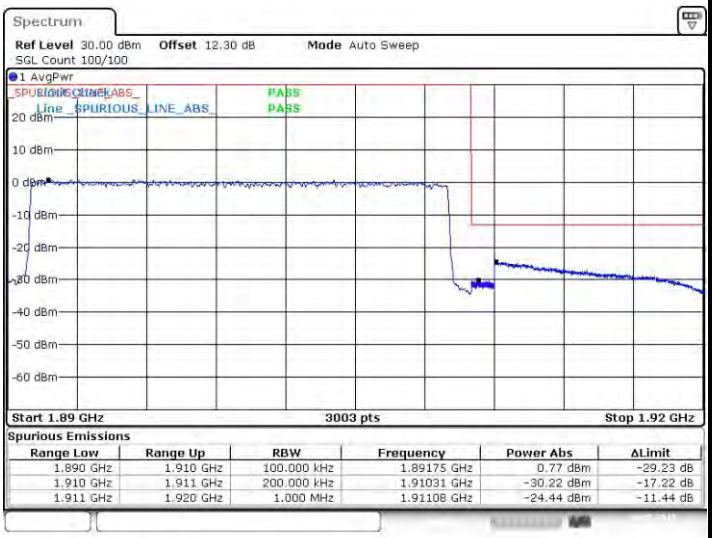


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84874 GHz	-22.56 dBm	-9.56 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84910 GHz	-28.95 dBm	-15.95 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.86306 GHz	0.79 dBm	-29.21 dB

Date: 16.MAY.2015 09:30:18

Highest Band Edge / Full RB



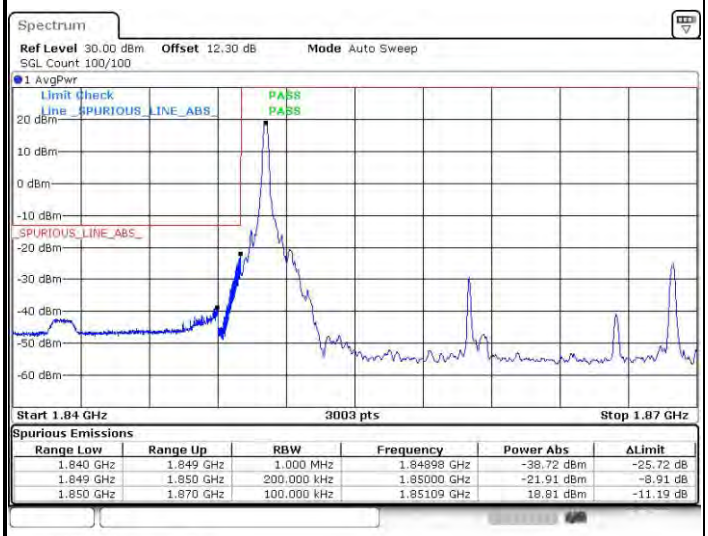
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.89175 GHz	0.77 dBm	-29.23 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91031 GHz	-30.22 dBm	-17.22 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91108 GHz	-24.44 dBm	-11.44 dB

Date: 16.MAY.2015 09:41:35

LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

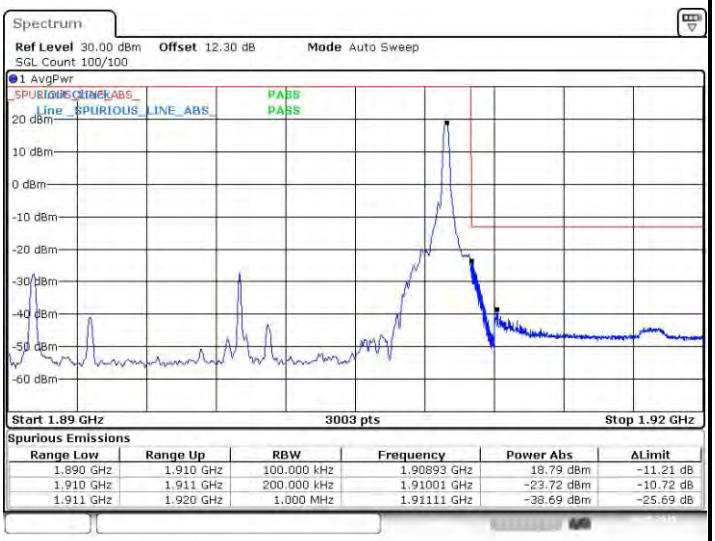


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-38.72 dBm	-25.72 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.85000 GHz	-21.91 dBm	-8.91 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85109 GHz	18.81 dBm	-11.19 dB

Date: 16.MAY.2015 09:29:08

Highest Band Edge / 1 RB

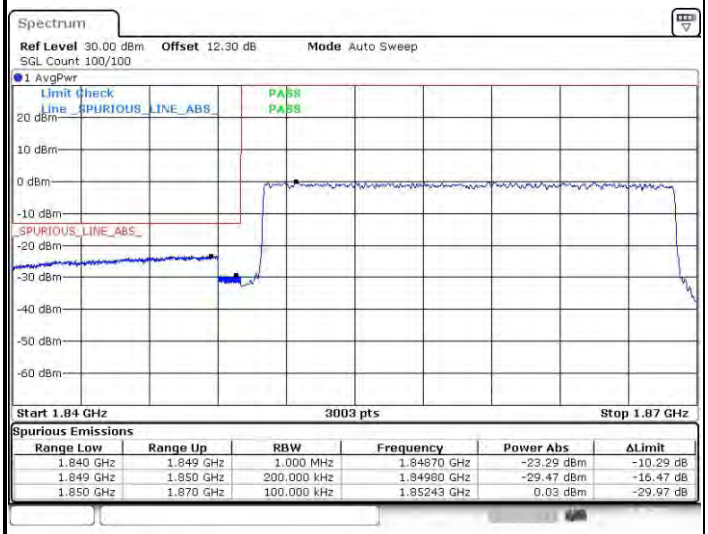


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90893 GHz	18.79 dBm	-11.21 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91001 GHz	-23.72 dBm	-10.72 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91111 GHz	-38.69 dBm	-25.69 dB

Date: 16.MAY.2015 09:40:25

Lowest Band Edge / Full RB

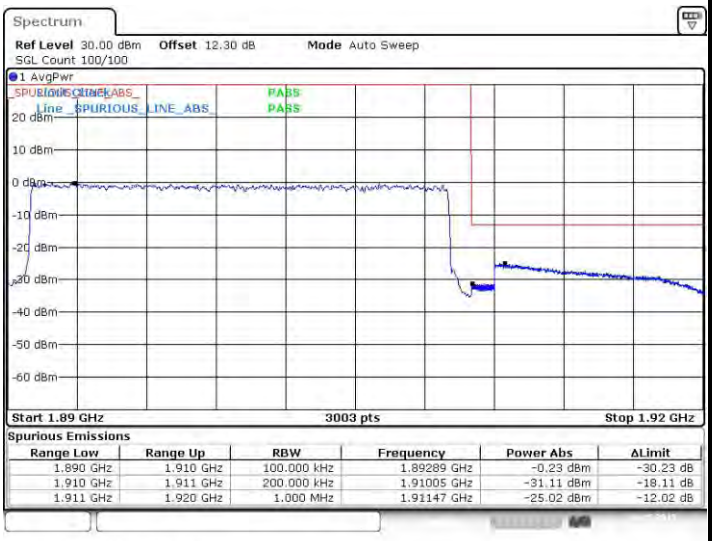


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84870 GHz	-23.29 dBm	-10.29 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84980 GHz	-29.47 dBm	-16.47 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85243 GHz	0.03 dBm	-29.97 dB

Date: 16.MAY.2015 09:31:27

Highest Band Edge / Full RB



Spurious Emissions

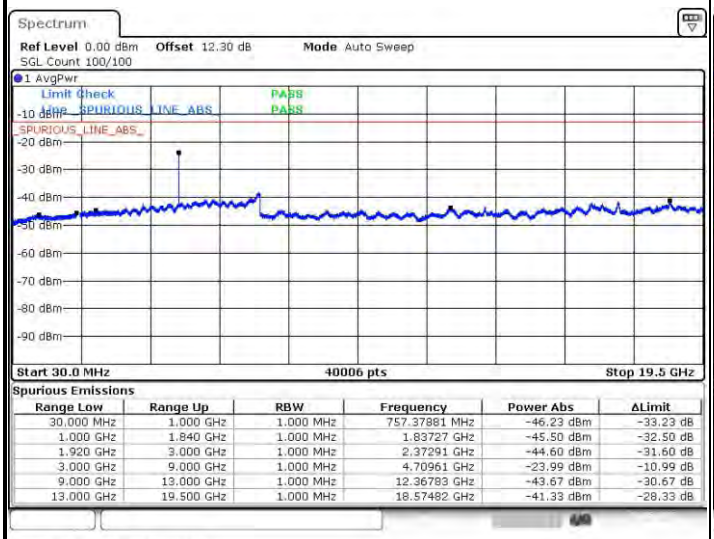
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.89289 GHz	-0.23 dBm	-30.23 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91005 GHz	-31.11 dBm	-18.11 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91147 GHz	-25.02 dBm	-12.02 dB

Date: 16.MAY.2015 09:42:45

Conducted Spurious Emission

LTE Band 2 / 1.4MHz

Lowest Channel / QPSK

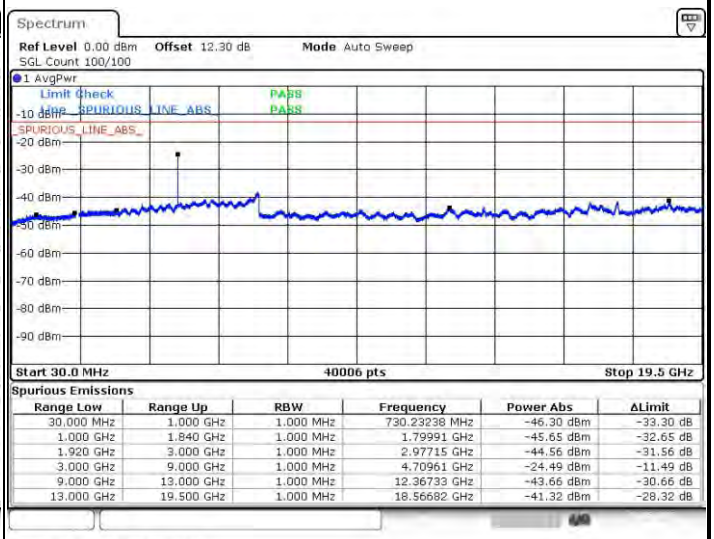


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	757.37881 MHz	-46.23 dBm	-33.23 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83727 GHz	-45.50 dBm	-32.50 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.37291 GHz	-44.60 dBm	-31.60 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70961 GHz	-23.99 dBm	-10.99 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36783 GHz	-43.67 dBm	-30.67 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57482 GHz	-41.33 dBm	-28.33 dB

Date: 16.MAY.2015 09:51:57

Lowest Channel / 16QAM

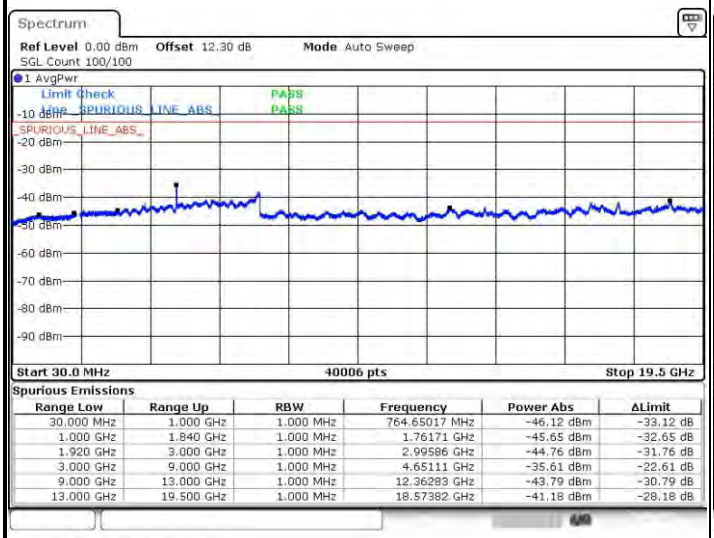


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	730.23238 MHz	-46.30 dBm	-33.30 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.79991 GHz	-45.65 dBm	-32.65 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.97715 GHz	-44.56 dBm	-31.56 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70961 GHz	-24.49 dBm	-11.49 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36733 GHz	-43.66 dBm	-30.66 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.56682 GHz	-41.32 dBm	-28.32 dB

Date: 16.MAY.2015 09:53:10

Middle Channel / QPSK

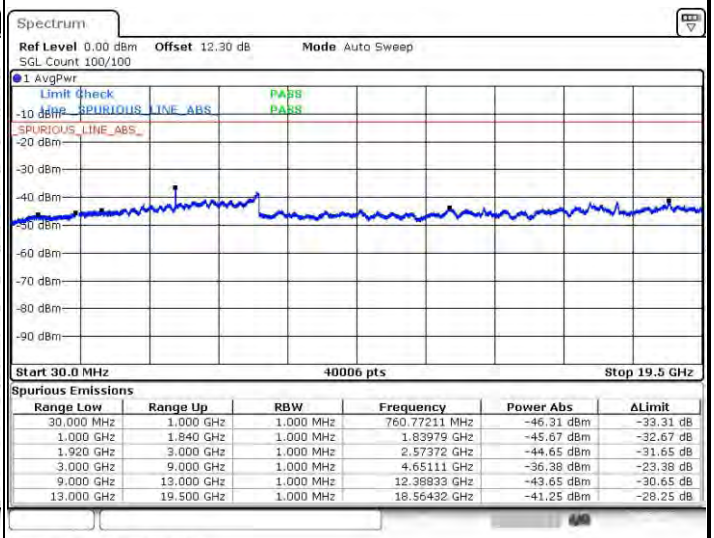


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	764.65017 MHz	-46.12 dBm	-33.12 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.76171 GHz	-45.65 dBm	-32.65 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99586 GHz	-44.76 dBm	-31.76 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.65111 GHz	-35.61 dBm	-22.61 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36283 GHz	-43.79 dBm	-30.79 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57382 GHz	-41.18 dBm	-28.18 dB

Date: 16.MAY.2015 09:55:16

Middle Channel / 16QAM



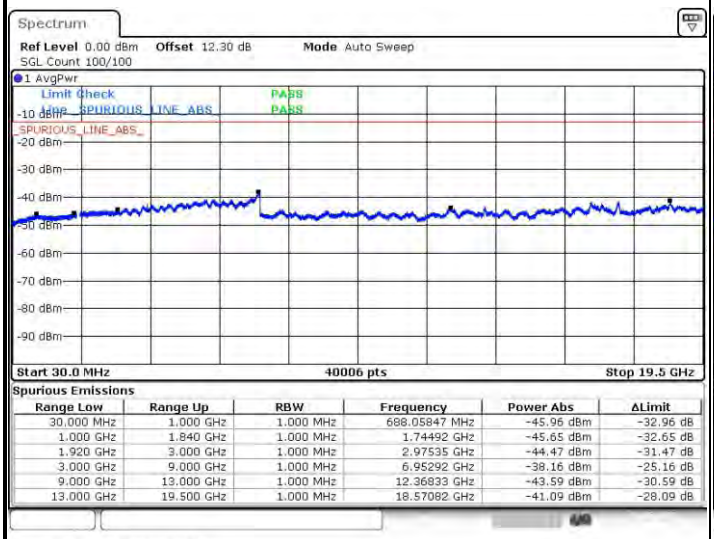
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	760.77211 MHz	-46.31 dBm	-33.31 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83979 GHz	-45.67 dBm	-32.67 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.57372 GHz	-44.65 dBm	-31.65 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.65111 GHz	-36.38 dBm	-23.38 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.38933 GHz	-43.65 dBm	-30.65 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.56432 GHz	-41.25 dBm	-28.25 dB

Date: 16.MAY.2015 09:56:29

LTE Band 2 / 1.4MHz

Highest Channel / QPSK

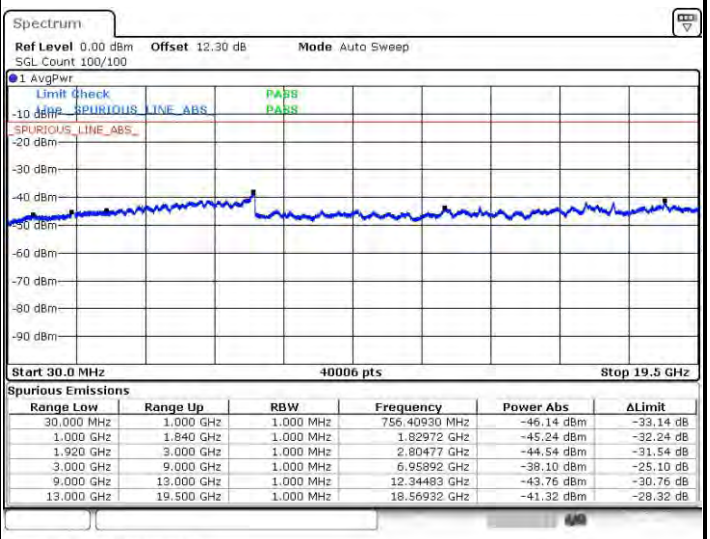


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	688.05847 MHz	-45.96 dBm	-32.96 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.74492 GHz	-45.65 dBm	-32.65 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.97535 GHz	-44.47 dBm	-31.47 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.95292 GHz	-38.16 dBm	-25.16 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36833 GHz	-43.59 dBm	-30.59 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57082 GHz	-41.09 dBm	-28.09 dB

Date: 16.MAY.2015 10:03:15

Highest Channel / 16QAM



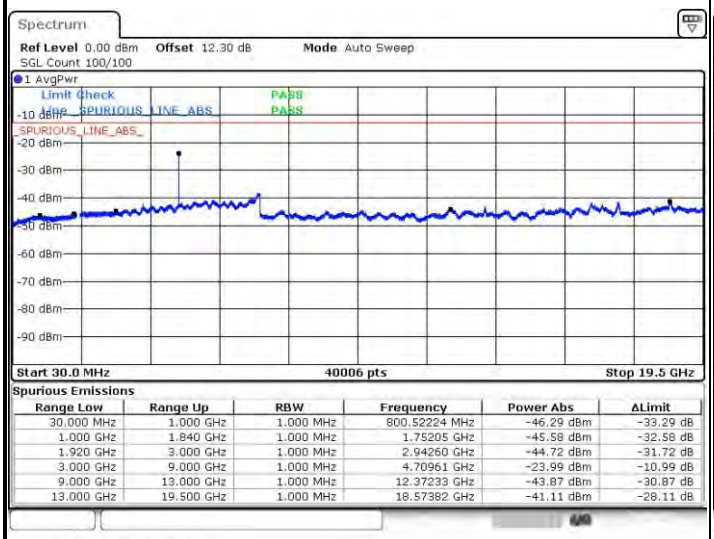
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	756.40930 MHz	-46.14 dBm	-33.14 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.82972 GHz	-45.24 dBm	-32.24 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.80477 GHz	-44.54 dBm	-31.54 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.95892 GHz	-38.10 dBm	-25.10 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.34483 GHz	-43.76 dBm	-30.76 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.56932 GHz	-41.32 dBm	-28.32 dB

Date: 16.MAY.2015 10:04:28

LTE Band 2 / 3MHz

Lowest Channel / QPSK

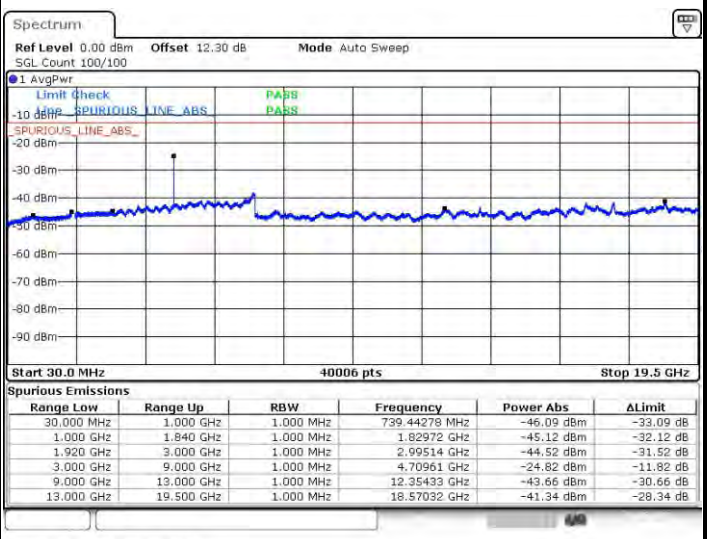


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	800.52224 MHz	-46.29 dBm	-33.29 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.75205 GHz	-45.58 dBm	-32.58 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.94260 GHz	-44.72 dBm	-31.72 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70961 GHz	-23.99 dBm	-10.99 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37233 GHz	-43.87 dBm	-30.87 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57382 GHz	-41.11 dBm	-28.11 dB

Date: 16.MAY.2015 08:15:28

Lowest Channel / 16QAM



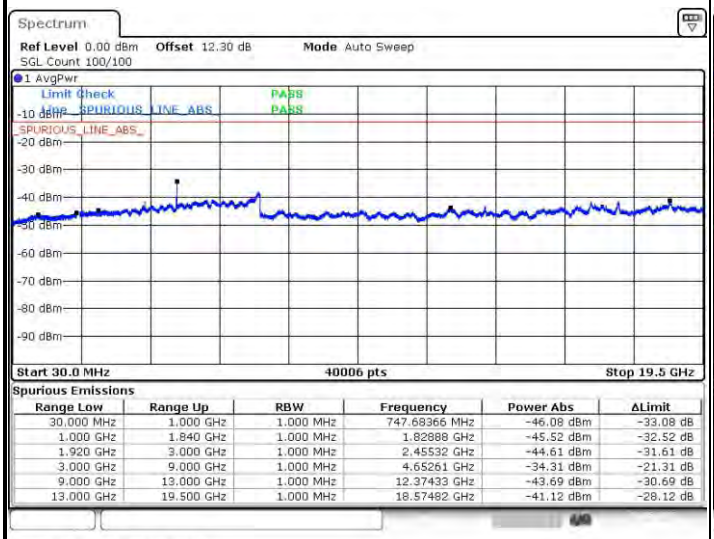
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	739.44278 MHz	-46.09 dBm	-33.09 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.82972 GHz	-45.12 dBm	-32.12 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99514 GHz	-44.52 dBm	-31.52 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70961 GHz	-24.82 dBm	-11.82 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.35433 GHz	-43.66 dBm	-30.66 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57032 GHz	-41.34 dBm	-28.34 dB

Date: 16.MAY.2015 08:16:42

LTE Band 2 / 3MHz

Middle Channel / QPSK

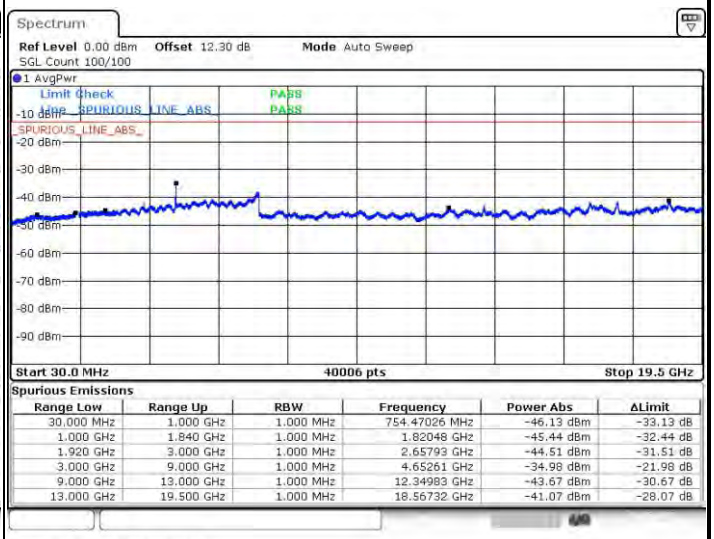


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	747.68366 MHz	-46.08 dBm	-33.08 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.82888 GHz	-45.52 dBm	-32.52 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.45532 GHz	-44.61 dBm	-31.61 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.65261 GHz	-34.31 dBm	-21.31 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37433 GHz	-43.69 dBm	-30.69 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57482 GHz	-41.12 dBm	-28.12 dB

Date: 16.MAY.2015 08:18:48

Middle Channel / 16QAM

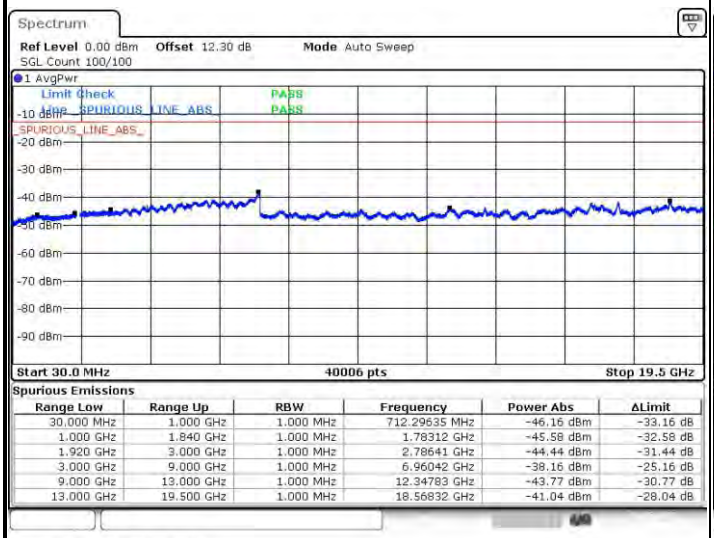


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	754.47026 MHz	-46.13 dBm	-33.13 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.82048 GHz	-45.44 dBm	-32.44 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.65793 GHz	-44.51 dBm	-31.51 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.65261 GHz	-34.98 dBm	-21.98 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.34983 GHz	-43.67 dBm	-30.67 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.56732 GHz	-41.07 dBm	-28.07 dB

Date: 16.MAY.2015 08:20:02

Highest Channel / QPSK

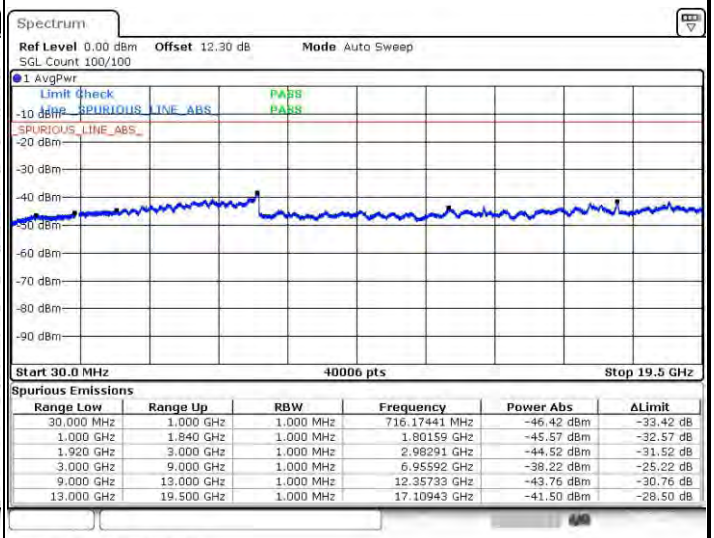


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	712.29635 MHz	-46.16 dBm	-33.16 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.78312 GHz	-45.58 dBm	-32.58 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.78641 GHz	-44.44 dBm	-31.44 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.96042 GHz	-38.16 dBm	-25.16 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.34783 GHz	-43.77 dBm	-30.77 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.56832 GHz	-41.04 dBm	-28.04 dB

Date: 16.MAY.2015 08:26:49

Highest Channel / 16QAM



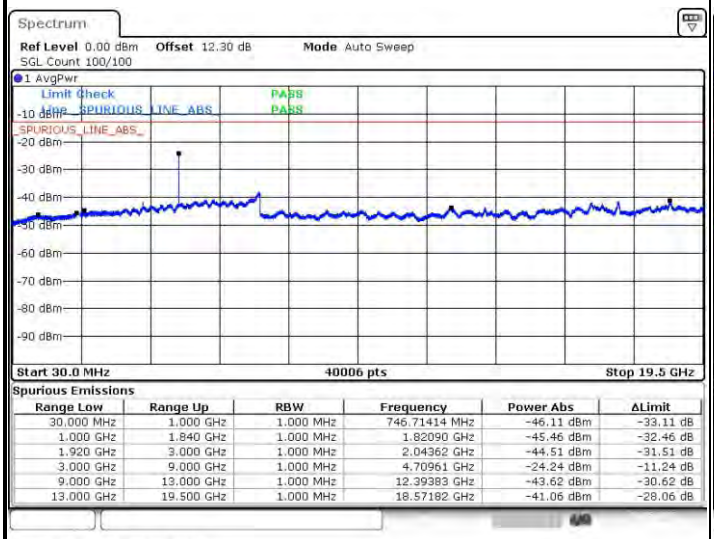
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	716.17441 MHz	-46.42 dBm	-33.42 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.80159 GHz	-45.57 dBm	-32.57 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.98291 GHz	-44.52 dBm	-31.52 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.95592 GHz	-38.22 dBm	-25.22 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.35733 GHz	-43.76 dBm	-30.76 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.10943 GHz	-41.50 dBm	-28.50 dB

Date: 16.MAY.2015 08:28:03

LTE Band 2 / 5MHz

Lowest Channel / QPSK

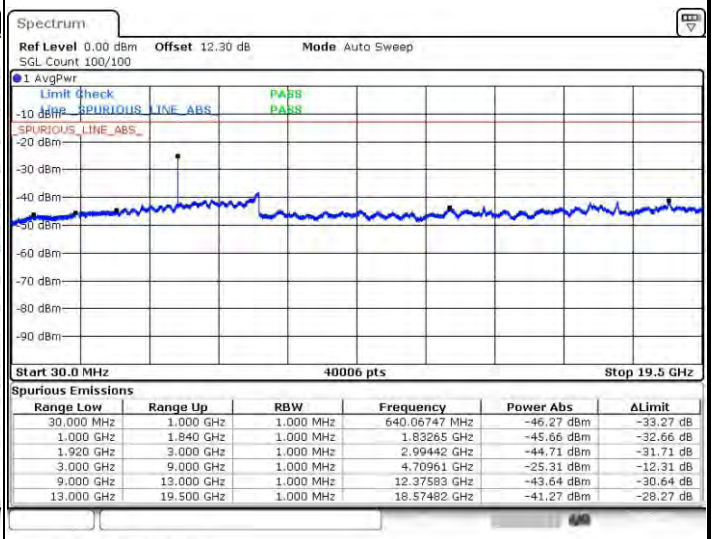


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	746.71414 MHz	-46.11 dBm	-33.11 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.82090 GHz	-45.46 dBm	-32.46 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.04362 GHz	-44.51 dBm	-31.51 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70961 GHz	-24.24 dBm	-11.24 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.39383 GHz	-43.62 dBm	-30.62 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57182 GHz	-41.06 dBm	-28.06 dB

Date: 16.MAY.2015 08:34:49

Lowest Channel / 16QAM

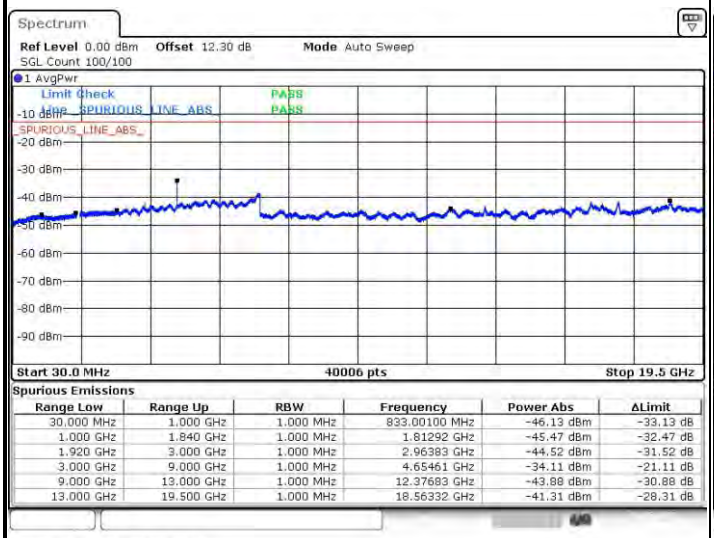


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	640.06747 MHz	-46.27 dBm	-33.27 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83265 GHz	-45.66 dBm	-32.66 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99442 GHz	-44.71 dBm	-31.71 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70961 GHz	-25.31 dBm	-12.31 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37583 GHz	-43.64 dBm	-30.64 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57482 GHz	-41.27 dBm	-28.27 dB

Date: 16.MAY.2015 08:36:03

Middle Channel / QPSK

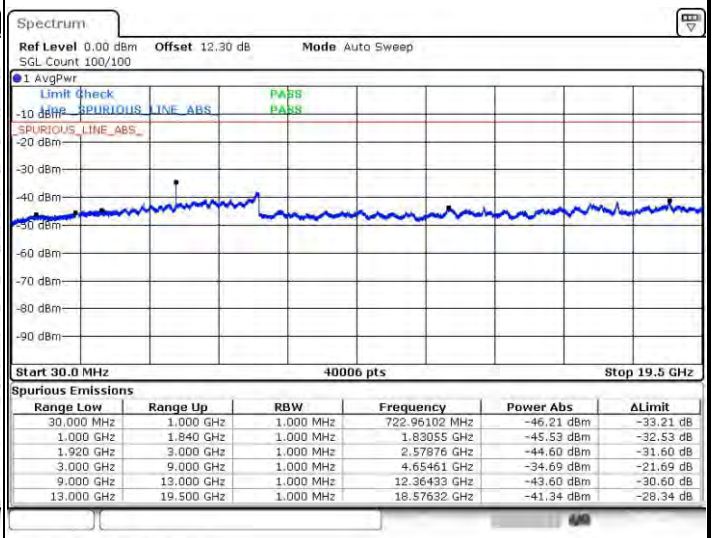


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	833.00100 MHz	-46.13 dBm	-33.13 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.81292 GHz	-45.47 dBm	-32.47 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.96383 GHz	-44.52 dBm	-31.52 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.65461 GHz	-34.11 dBm	-21.11 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37683 GHz	-43.88 dBm	-30.88 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.56332 GHz	-41.31 dBm	-28.31 dB

Date: 16.MAY.2015 08:38:09

Middle Channel / 16QAM



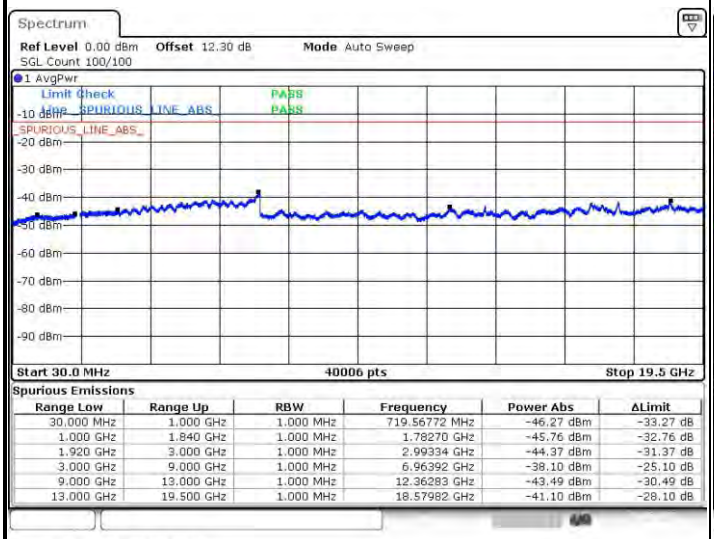
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	722.96102 MHz	-46.21 dBm	-33.21 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83055 GHz	-45.53 dBm	-32.53 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.57876 GHz	-44.60 dBm	-31.60 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.65461 GHz	-34.69 dBm	-21.69 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36433 GHz	-43.60 dBm	-30.60 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57632 GHz	-41.34 dBm	-28.34 dB

Date: 16.MAY.2015 08:39:23

LTE Band 2 / 5MHz

Highest Channel / QPSK

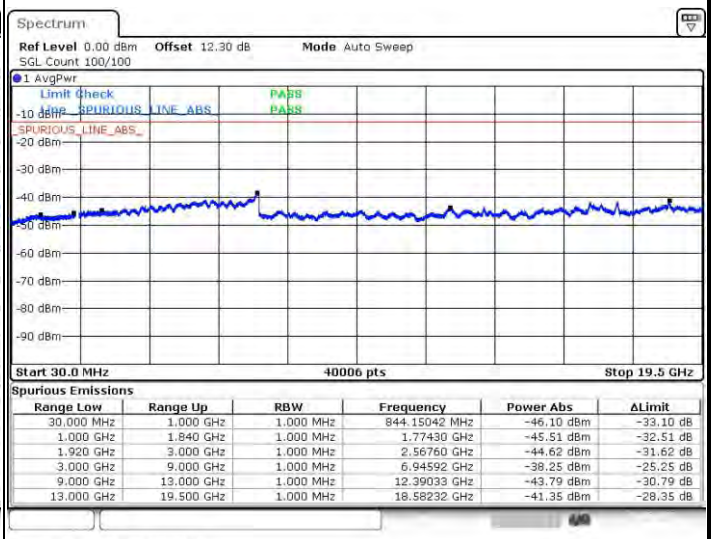


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	719.56772 MHz	-46.27 dBm	-33.27 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.78270 GHz	-45.76 dBm	-32.76 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99334 GHz	-44.37 dBm	-31.37 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.96392 GHz	-38.10 dBm	-25.10 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36283 GHz	-43.49 dBm	-30.49 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57982 GHz	-41.10 dBm	-28.10 dB

Date: 16.MAY.2015 08:46:09

Highest Channel / 16QAM



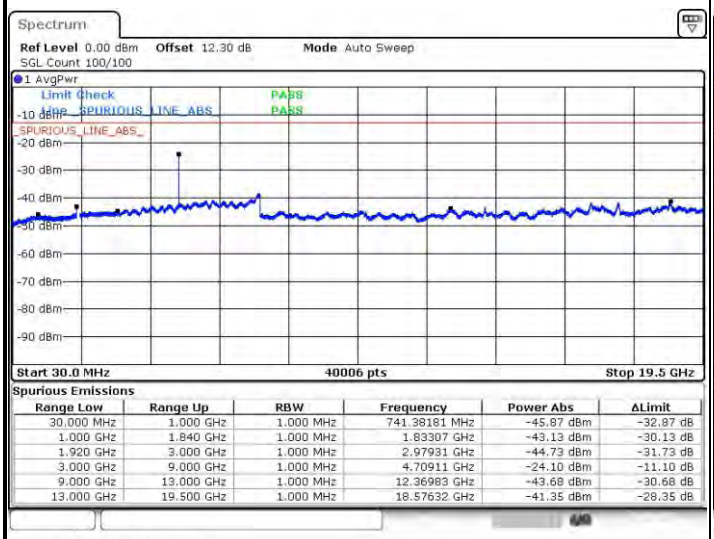
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	844.15042 MHz	-46.10 dBm	-33.10 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.77430 GHz	-45.51 dBm	-32.51 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.56760 GHz	-44.62 dBm	-31.62 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.94592 GHz	-38.25 dBm	-25.25 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.39033 GHz	-43.79 dBm	-30.79 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.58232 GHz	-41.35 dBm	-28.35 dB

Date: 16.MAY.2015 08:47:23

LTE Band 2 / 10MHz

Lowest Channel / QPSK

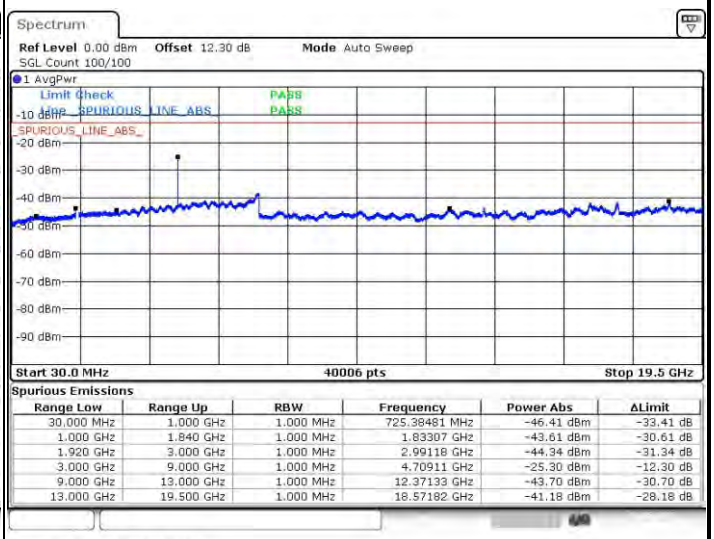


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	741.38181 MHz	-45.87 dBm	-32.87 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83307 GHz	-43.13 dBm	-30.13 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.97931 GHz	-44.73 dBm	-31.73 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70911 GHz	-24.10 dBm	-11.10 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36983 GHz	-43.68 dBm	-30.68 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57632 GHz	-41.35 dBm	-28.35 dB

Date: 16.MAY.2015 08:54:08

Lowest Channel / 16QAM



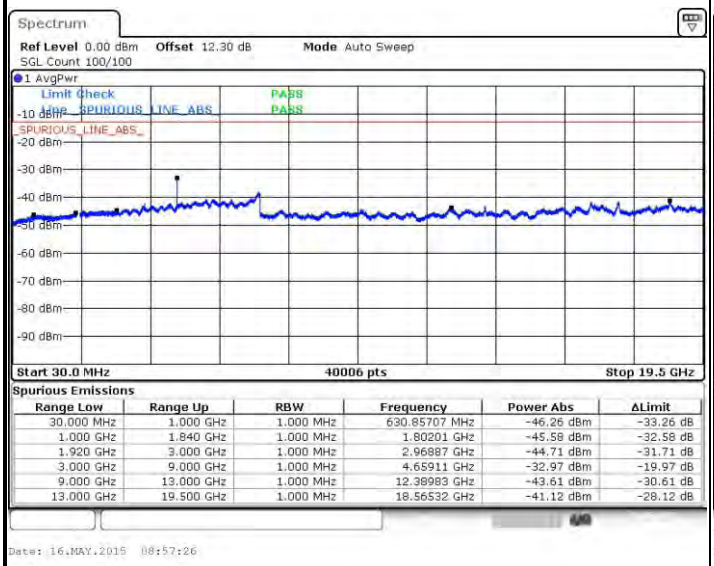
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	725.38481 MHz	-46.41 dBm	-33.41 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83307 GHz	-43.61 dBm	-30.61 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99118 GHz	-44.34 dBm	-31.34 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70911 GHz	-25.30 dBm	-12.30 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37133 GHz	-43.70 dBm	-30.70 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57182 GHz	-41.18 dBm	-28.18 dB

Date: 16.MAY.2015 08:55:22

LTE Band 2 / 10MHz

Middle Channel / QPSK

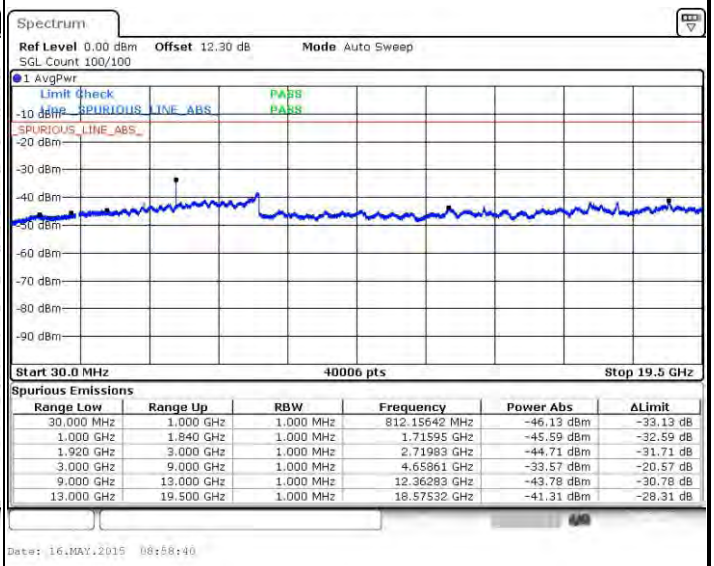


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	630.85707 MHz	-46.26 dBm	-33.26 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.80201 GHz	-45.58 dBm	-32.58 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.96887 GHz	-44.71 dBm	-31.71 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.65911 GHz	-32.97 dBm	-19.97 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.38983 GHz	-43.61 dBm	-30.61 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.56532 GHz	-41.12 dBm	-28.12 dB

Date: 16.MAY.2015 08:57:26

Middle Channel / 16QAM

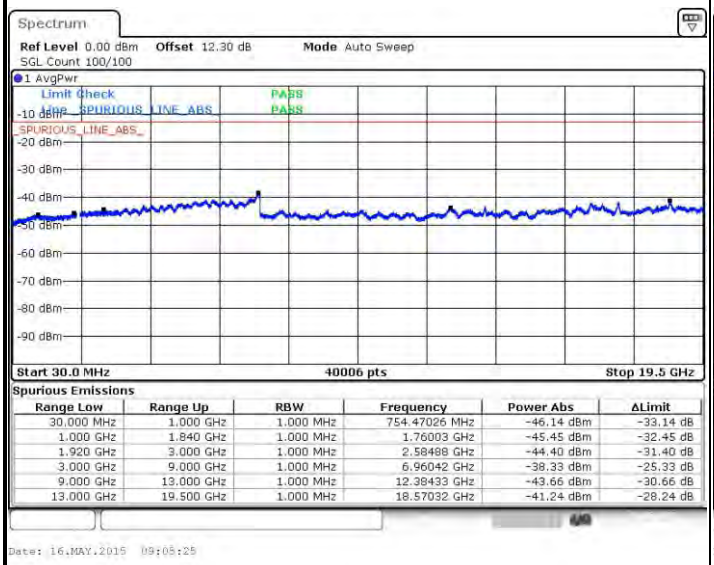


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	812.15642 MHz	-46.13 dBm	-33.13 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.71595 GHz	-45.59 dBm	-32.59 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.71983 GHz	-44.71 dBm	-31.71 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.65861 GHz	-33.57 dBm	-20.57 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36283 GHz	-43.78 dBm	-30.78 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57532 GHz	-41.31 dBm	-28.31 dB

Date: 16.MAY.2015 08:58:40

Highest Channel / QPSK

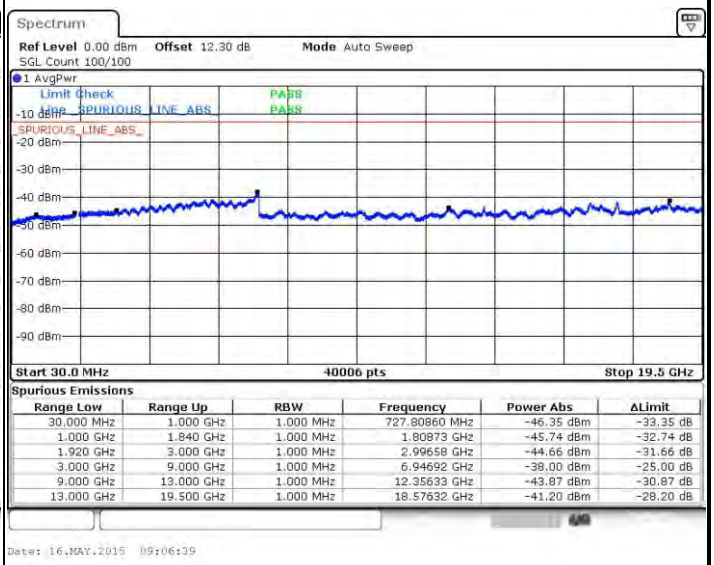


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	754.47026 MHz	-46.14 dBm	-33.14 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.76003 GHz	-45.45 dBm	-32.45 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.58488 GHz	-44.40 dBm	-31.40 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.96042 GHz	-38.33 dBm	-25.33 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.38433 GHz	-43.66 dBm	-30.66 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57032 GHz	-41.24 dBm	-28.24 dB

Date: 16.MAY.2015 09:05:25

Highest Channel / 16QAM



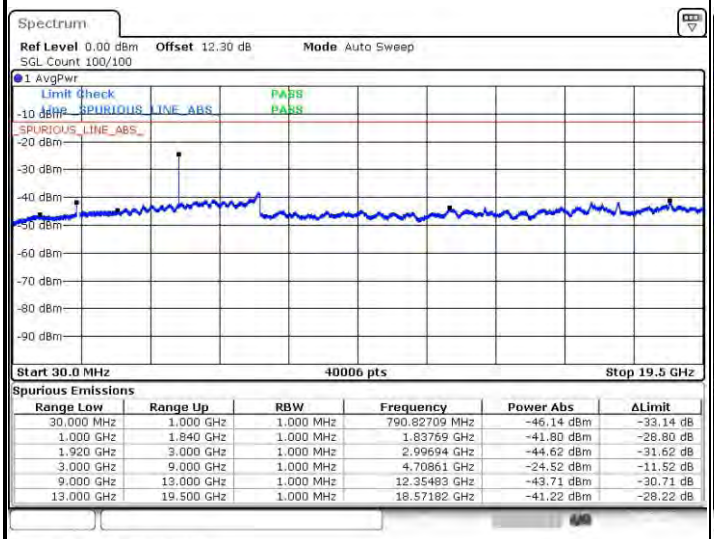
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	727.80860 MHz	-46.35 dBm	-33.35 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.80873 GHz	-45.74 dBm	-32.74 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99658 GHz	-44.66 dBm	-31.66 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.94692 GHz	-38.00 dBm	-25.00 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.35633 GHz	-43.87 dBm	-30.87 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57632 GHz	-41.20 dBm	-28.20 dB

Date: 16.MAY.2015 09:06:39

LTE Band 2 / 15MHz

Lowest Channel / QPSK

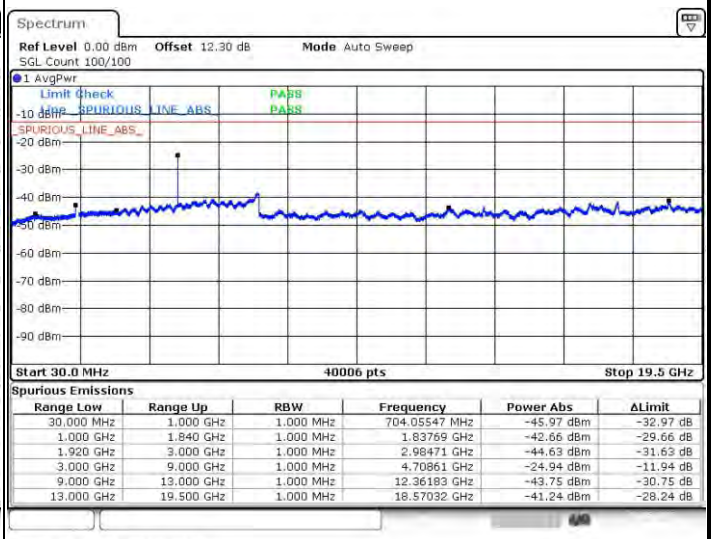


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	790.82709 MHz	-46.14 dBm	-33.14 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83769 GHz	-41.80 dBm	-28.80 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99694 GHz	-44.62 dBm	-31.62 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70861 GHz	-24.52 dBm	-11.52 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.35483 GHz	-43.71 dBm	-30.71 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57182 GHz	-41.22 dBm	-28.22 dB

Date: 16.MAY.2015 09:13:24

Lowest Channel / 16QAM

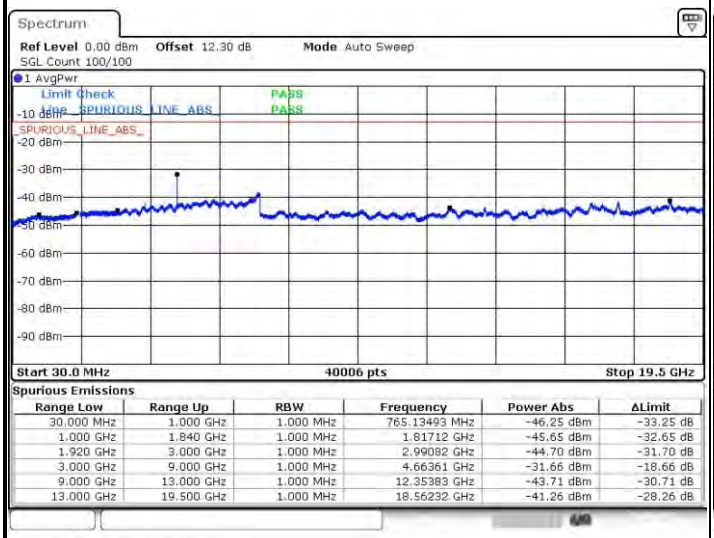


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	704.05547 MHz	-45.97 dBm	-32.97 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83769 GHz	-42.66 dBm	-29.66 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.98471 GHz	-44.63 dBm	-31.63 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70861 GHz	-24.94 dBm	-11.94 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36183 GHz	-43.75 dBm	-30.75 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57032 GHz	-41.24 dBm	-28.24 dB

Date: 16.MAY.2015 09:14:38

Middle Channel / QPSK

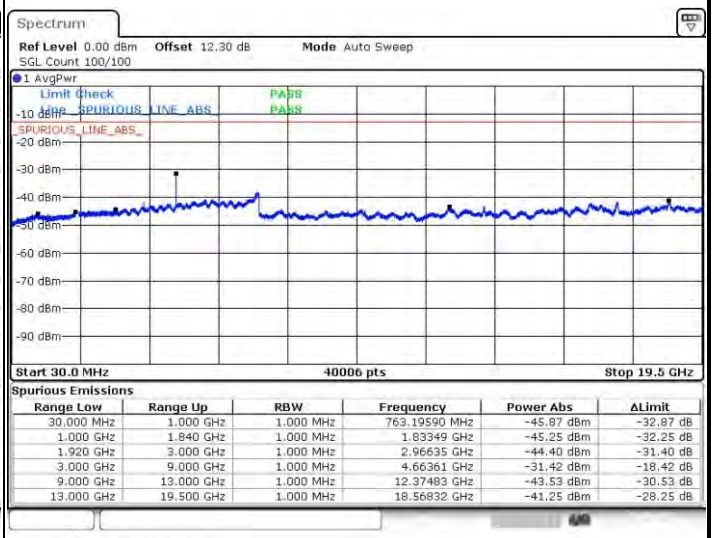


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	765.13493 MHz	-46.25 dBm	-33.25 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.81712 GHz	-45.65 dBm	-32.65 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99082 GHz	-44.70 dBm	-31.70 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.66361 GHz	-31.66 dBm	-18.66 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.35383 GHz	-43.71 dBm	-30.71 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.56232 GHz	-41.26 dBm	-28.26 dB

Date: 16.MAY.2015 09:16:43

Middle Channel / 16QAM



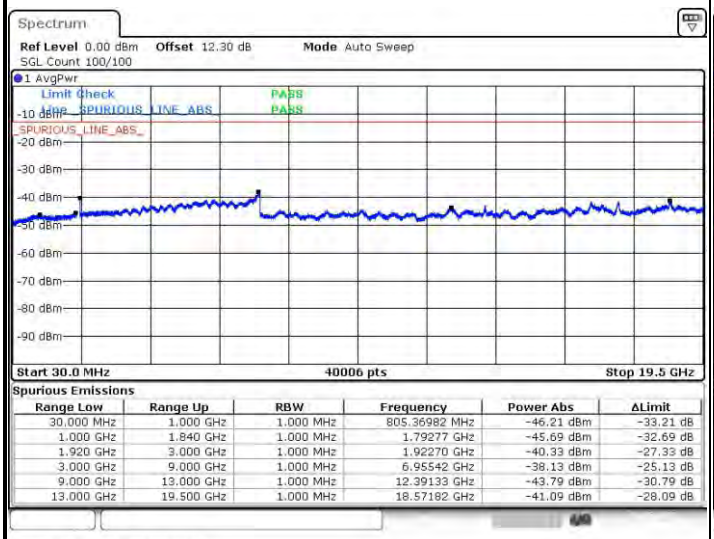
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	763.19590 MHz	-45.87 dBm	-32.87 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83349 GHz	-45.25 dBm	-32.25 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.96635 GHz	-44.40 dBm	-31.40 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.66361 GHz	-31.42 dBm	-18.42 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37483 GHz	-43.53 dBm	-30.53 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.56832 GHz	-41.25 dBm	-28.25 dB

Date: 16.MAY.2015 09:17:57

LTE Band 2 / 15MHz

Highest Channel / QPSK

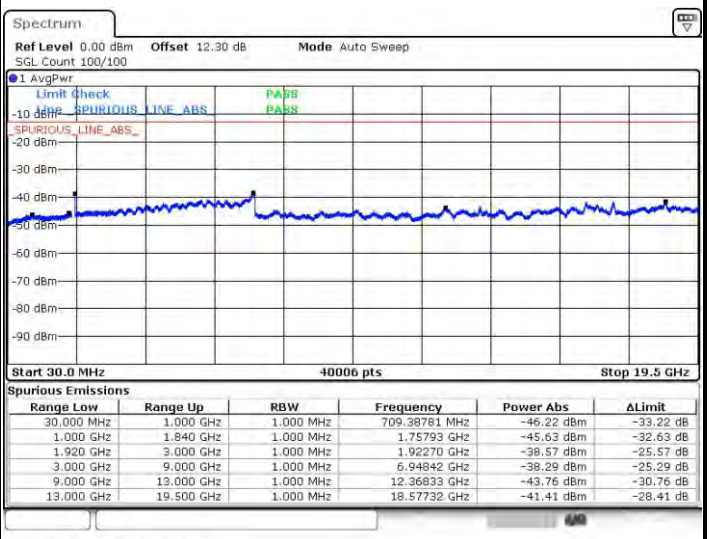


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	805.36982 MHz	-46.21 dBm	-33.21 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.79277 GHz	-45.69 dBm	-32.69 dB
1.920 GHz	3.000 GHz	1.000 MHz	1.92270 GHz	-40.33 dBm	-27.33 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.95542 GHz	-38.13 dBm	-25.13 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.39133 GHz	-43.79 dBm	-30.79 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57182 GHz	-41.09 dBm	-28.09 dB

Date: 16.MAY.2015 09:24:42

Highest Channel / 16QAM



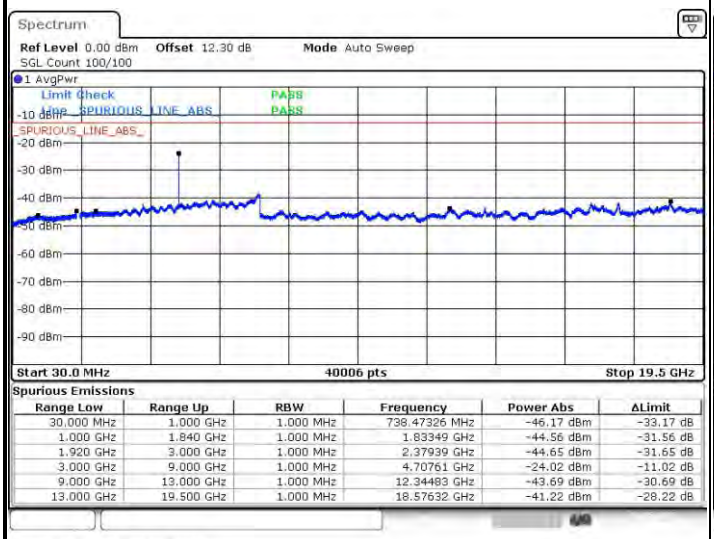
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	709.38781 MHz	-46.22 dBm	-33.22 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.75793 GHz	-45.63 dBm	-32.63 dB
1.920 GHz	3.000 GHz	1.000 MHz	1.92270 GHz	-38.57 dBm	-25.57 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.94842 GHz	-38.29 dBm	-25.29 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36833 GHz	-43.76 dBm	-30.76 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57732 GHz	-41.41 dBm	-28.41 dB

Date: 16.MAY.2015 09:25:56

LTE Band 2 / 20MHz

Lowest Channel / QPSK

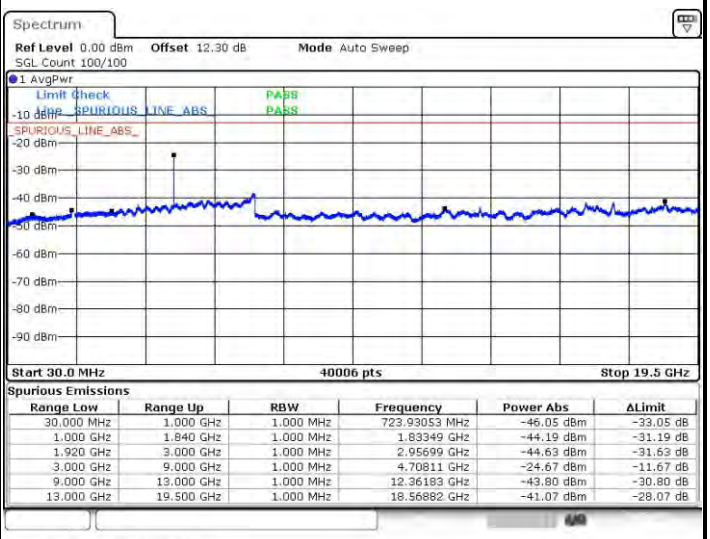


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	738.47326 MHz	-46.17 dBm	-33.17 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83349 GHz	-44.56 dBm	-31.56 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.37939 GHz	-44.65 dBm	-31.65 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70761 GHz	-24.02 dBm	-11.02 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.34483 GHz	-43.69 dBm	-30.69 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57632 GHz	-41.22 dBm	-28.22 dB

Date: 16.MAY.2015 09:32:40

Lowest Channel / 16QAM



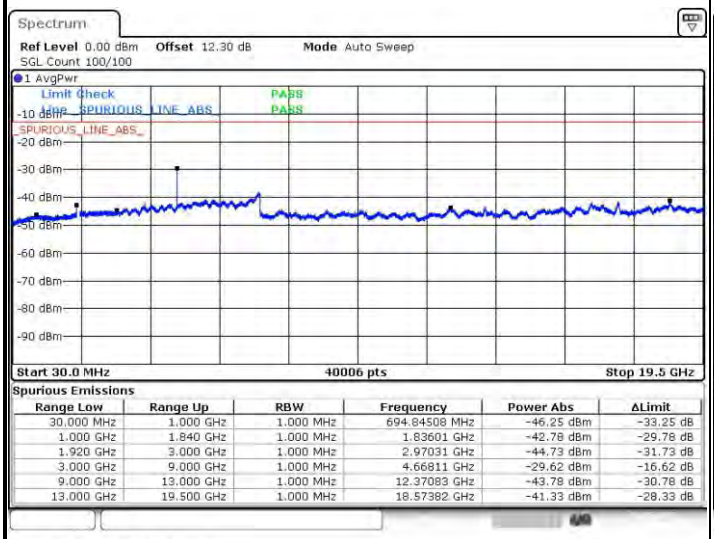
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	723.93053 MHz	-46.05 dBm	-33.05 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83349 GHz	-44.19 dBm	-31.19 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.95699 GHz	-44.63 dBm	-31.63 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70811 GHz	-24.67 dBm	-11.67 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36183 GHz	-43.80 dBm	-30.80 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.56882 GHz	-41.07 dBm	-28.07 dB

Date: 16.MAY.2015 09:33:54

LTE Band 2 / 20MHz

Middle Channel / QPSK

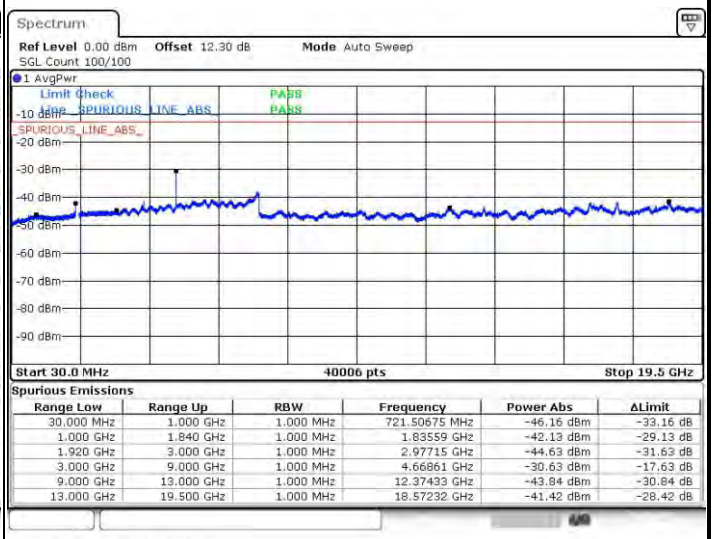


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	694.84508 MHz	-46.25 dBm	-33.25 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83601 GHz	-42.78 dBm	-29.78 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.97031 GHz	-44.73 dBm	-31.73 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.66811 GHz	-29.62 dBm	-16.62 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37083 GHz	-43.78 dBm	-30.78 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57382 GHz	-41.33 dBm	-28.33 dB

Date: 16.MAY.2015 09:36:00

Middle Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	721.50675 MHz	-46.16 dBm	-33.16 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83559 GHz	-42.13 dBm	-29.13 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.97715 GHz	-44.63 dBm	-31.63 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.66861 GHz	-30.63 dBm	-17.63 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37433 GHz	-43.84 dBm	-30.84 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57232 GHz	-41.42 dBm	-28.42 dB

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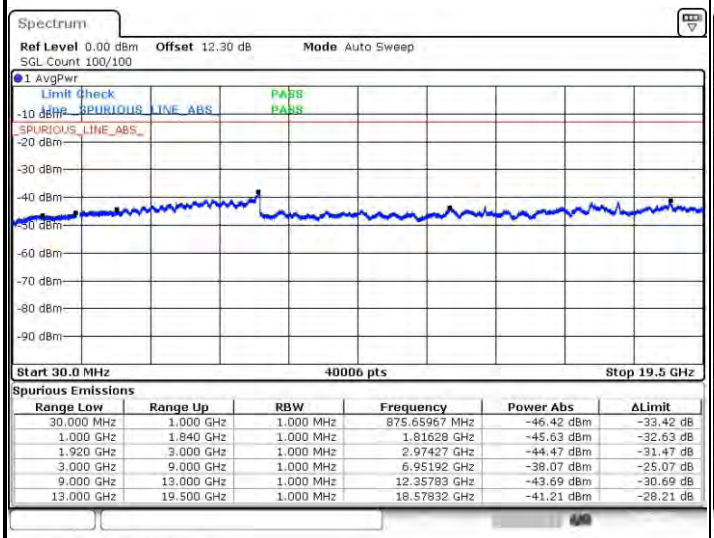
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	875.65967 MHz	-46.42 dBm	-33.42 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.81628 GHz	-45.63 dBm	-32.63 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.97427 GHz	-44.47 dBm	-31.47 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.95192 GHz	-38.07 dBm	-25.07 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.35783 GHz	-43.69 dBm	-30.69 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57832 GHz	-41.21 dBm	-28.21 dB

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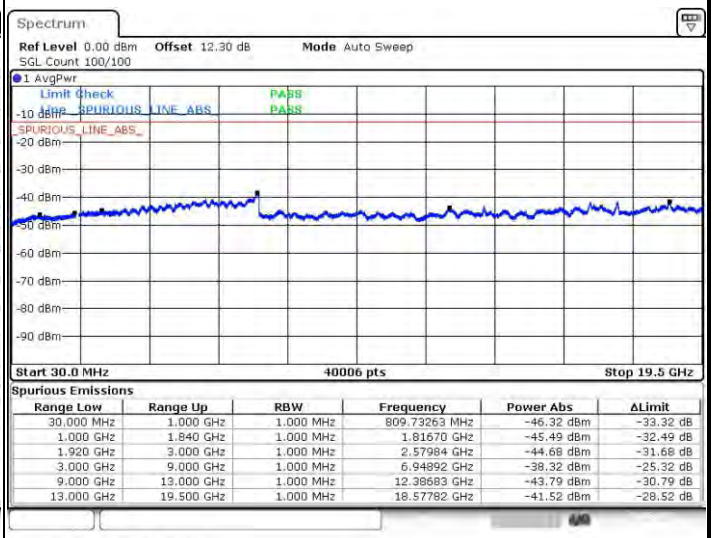
Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	809.73263 MHz	-46.32 dBm	-33.32 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.81670 GHz	-45.49 dBm	-32.49 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.57984 GHz	-44.68 dBm	-31.68 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.94892 GHz	-38.32 dBm	-25.32 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.38683 GHz	-43.79 dBm	-30.79 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.57782 GHz	-41.52 dBm	-28.52 dB

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Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0095	PASS
40	Normal Voltage	0.0088	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0090	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0094	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0092	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0089	

Note:

1. Normal Voltage = 3.7V. ；Battery End Point (BEP) = 3.5 V.；Maximum Voltage =4.1 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.