



Variant FCC RF Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : LTE/WCDMA/CDMA/GSM Multi-Mode Digital Mobile Phone
BRAND NAME : ZTE
MODEL NAME : Z986U
FCC ID : SRQ-Z986DL
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Dec. 23, 2016 and completely tested on Jan. 06, 2017. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

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FCC ID : SRQ-Z986DL

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TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant.....	5
1.2 Manufacturer.....	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Product Specification of Equipment Under Test.....	6
1.5 Modification of EUT	6
1.6 Maximum EIRP Power, Frequency Tolerance, and Emission Designator	7
1.7 Testing Location	8
1.8 Applicable Standards.....	8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	9
2.1 Test Mode.....	9
2.2 Connection Diagram of Test System.....	10
2.3 Support Unit used in test configuration and system	10
2.4 Measurement Results Explanation Example.....	11
2.5 Frequency List of Low/Middle/High Channels	12
3 CONDUCTED TEST ITEMS	13
3.1 Measuring Instruments	13
3.2 Test Setup	13
3.3 Test Result of Conducted Test.....	13
3.4 Conducted Output Power and EIRP	14
3.5 Peak-to-Average Ratio	15
3.6 Occupied Bandwidth.....	16
3.7 Conducted Band Edge	17
3.8 Conducted Spurious Emission	18
3.9 Frequency Stability	19
4 RADIATED TEST ITEMS	20
4.1 Measuring Instruments	20
4.2 Test Setup	20
4.3 Test Result of Radiated Test.....	20
4.4 Radiated Spurious Emission	21
5 LIST OF MEASURING EQUIPMENT	22
6 UNCERTAINTY OF EVALUATION	23
APPENDIX A. TEST RESULTS OF CONDUCTED TEST	
APPENDIX B. TEST RESULTS OF RADIATED TEST	
APPENDIX C. TEST SETUP PHOTOGRAPHS	
APPENDIX D. PRODUCT EQUALITY DECLARATION	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG692805-01	Rev. 01	This is a variant report for Z986U. The product equality declaration could be referred to Appendix D. The device added LTE Band 25 via software control. LTE Band 25 full testing and others were performed in original report which can be referred to Sporton Report Number FG692805B.	Jan. 19, 2017

**SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 25)	EIRP < 2Watt	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §24.238(a)	Conducted Band Edge Measurement (Band 25)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §24.238(a)	Conducted Spurious Emission (Band 25)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§2.1055 §24.235	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §24.238(a)	Radiated Spurious Emission (Band 25)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 36.72 dB at 5628.000 MHz



1 General Description

1.1 Applicant

ZTE CORPORATION

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

1.2 Manufacturer

ZTE CORPORATION

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

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE/WCDMA/CDMA/GSM Multi-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	Z986U
FCC ID	SRQ-Z986DL
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/LTE WLAN2.4GHz 802.11b/g/n HT20/HT40 WLAN5GHz 802.11a/n HT20/HT40 WLAN5GHz 802.11ac VHT20/VHT40 Bluetooth v3.0+EDR Bluetooth v4.0/4.2 LE
IMEI Code	Conducted: 990008840001031 Radiation: 990008840001015
HW Version	Z986UHWV1.0
SW Version	Z986UV1.0.0B01
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
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 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 25 : 1930.7MHz ~ 1994.3 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 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 25 : 24.97 dBm
Antenna Gain	LTE Band 25 : 2.85 dBi
Type of Modulation	QPSK / 16QAM

1.5 Modification of EUT

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



1.6 Maximum EIRP Power, Frequency Tolerance, and Emission Designator

LTE Band 25		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1914.3	1M10G7D	-	0.5483	1M10W7D	-	0.4477
3	1851.5 ~ 1913.5	2M73G7D	-	0.5408	2M73W7D	-	0.4266
5	1852.5 ~ 1912.5	4M51G7D	-	0.5728	4M52W7D	-	0.4285
10	1855.0 ~ 1910.0	9M09G7D	0.0024	0.5888	9M01W7D	-	0.4477
15	1857.5 ~ 1907.5	13M4G7D	-	0.6053	13M4W7D	-	0.4560
20	1860.0 ~ 1905.0	18M3G7D	-	0.5888	18M3W7D	-	0.4581



1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.		
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958		
Test Site No.	Sporton Site No.		FCC Registration No.
	TH01-KS	03CH03-KS	306251

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(L), 27(H), 27(F)
- ♦ ANSI / TIA / EIA-603-D-2010
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

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

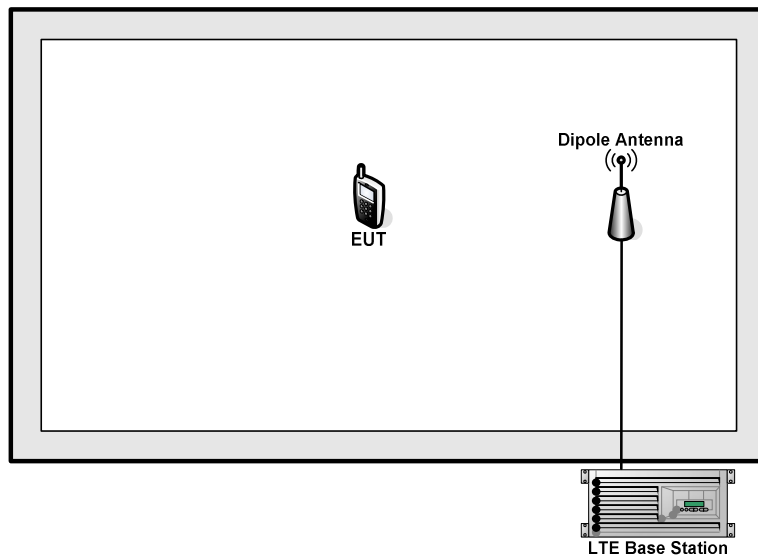
2.1 Test Mode

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	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Peak-to-Average Ratio	25						✓	✓	✓	✓		✓	✓	✓	✓
26dB and 99% Bandwidth	25	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
Conducted Band Edge	25	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
Conducted Spurious Emission	25	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Frequency Stability	25				✓			✓				✓		✓	
E.I.R.P.	25	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Radiated Spurious Emission	25	✓	✓	✓	✓	✓	✓	✓		✓				✓	
Note	1. The mark “✓” 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.	DC Power Supply	GW INSTEK	GPS-3030D	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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.3 dB.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 5.3 \text{ (dB)}\end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3

3 Conducted Test Items

3.1 Measuring Instruments

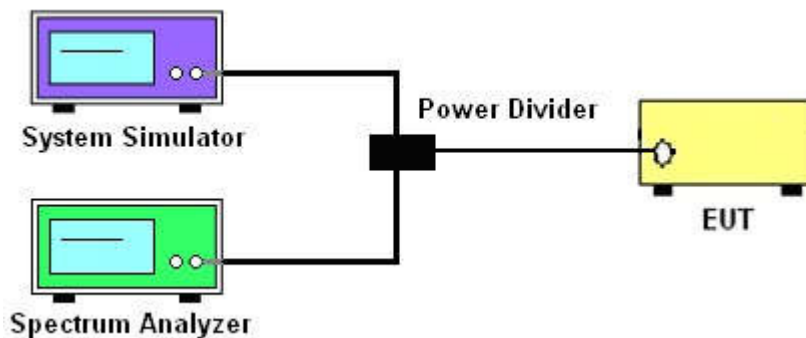
See list of measuring instruments of this test report.

3.2 Test Setup

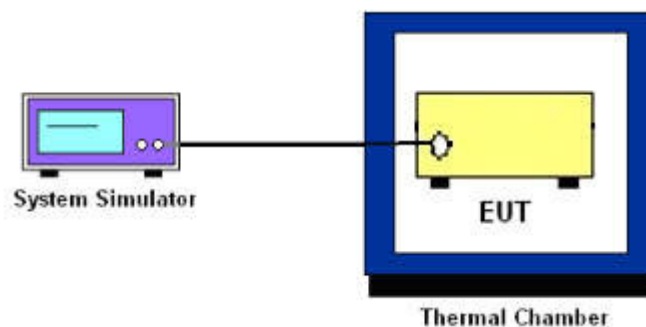
3.2.1 Conducted Output Power



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 and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP 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.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 25

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ 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.

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.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power $P(\text{Watts})$
 $= P(\text{W}) - [43 + 10\log(P)] (\text{dB})$
 $= [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB}) = -13\text{dBm}.$

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.

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.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

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 $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. 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 $20\pm 5^{\circ}\text{C}$ 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.

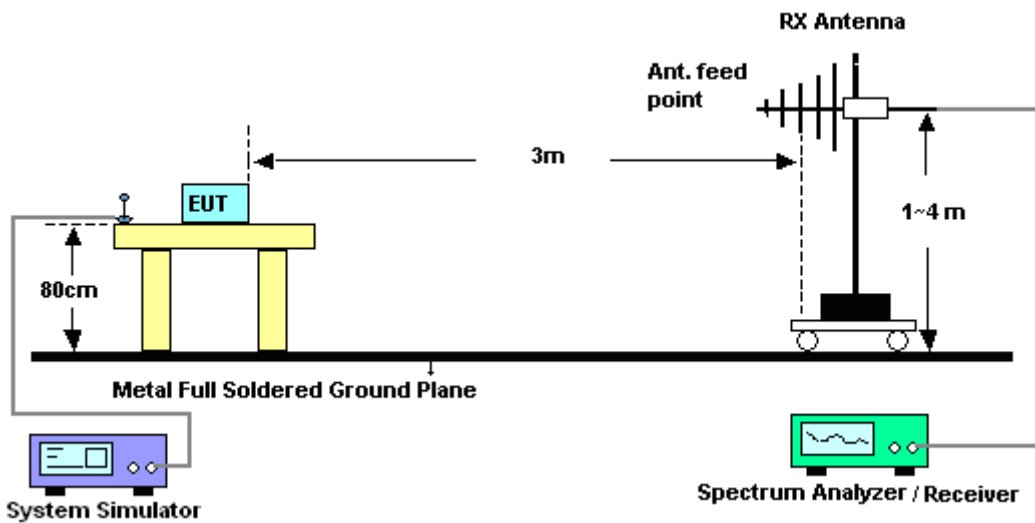
4 Radiated Test Items

4.1 Measuring Instruments

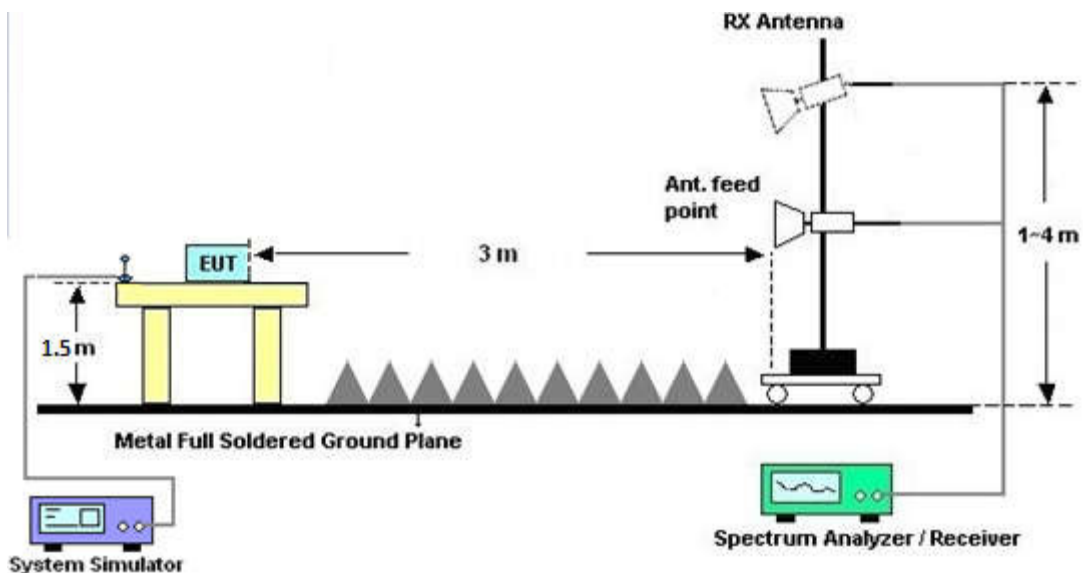
See list of measuring instruments of this test report.

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 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-D-2010. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

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

4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 09, 2016	Jan. 03, 2017~ Jan. 06, 2017	Aug. 08, 2017	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 13, 2016	Jan. 03, 2017~ Jan. 06, 2017	Oct. 12, 2017	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 22, 2016	Dec. 30, 2016	Apr. 21, 2017	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 16, 2016	Dec. 30, 2016	Apr. 15, 2017	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 16, 2016	Dec. 30, 2016	Apr. 15, 2017	Radiation (03CH03-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Mar. 03, 2016	Dec. 30, 2016	Mar. 02, 2017	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	187289	9kHz~1GHz	Aug. 09, 2016	Dec. 30, 2016	Aug. 08, 2017	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 13, 2016	Dec. 30, 2016	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 30, 2016	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 30, 2016	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 30, 2016	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required



6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (25 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	24.51	24.70	24.33
20	1	49		24.79	24.85	24.66
20	1	99		24.31	24.39	24.16
20	50	0		23.91	23.92	23.79
20	50	24		23.76	23.77	23.75
20	50	50		23.81	23.82	23.74
20	100	0		23.87	23.89	23.76
20	1	0	16-QAM	23.69	23.57	23.46
20	1	49		23.63	23.76	23.35
20	1	99		23.42	23.55	23.47
20	50	0		22.89	22.91	23.00
20	50	24		22.92	22.98	22.98
20	50	50		23.00	22.94	22.95
20	100	0		23.00	22.89	22.96
15	1	0	QPSK	24.50	24.79	24.64
15	1	37		24.75	24.73	24.97
15	1	74		24.69	24.67	23.81
15	36	0		23.77	23.81	23.76
15	36	20		23.84	23.76	23.71
15	36	39		23.94	23.80	23.71
15	75	0		23.80	23.75	23.74
15	1	0	16-QAM	23.74	23.65	23.40
15	1	37		23.58	23.53	23.56
15	1	74		23.49	23.49	23.17
15	36	0		22.81	22.91	22.86
15	36	20		22.96	22.89	22.90
15	36	39		22.89	22.92	22.66
15	75	0		22.91	22.98	22.85



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	24.69	24.36	24.70
10	1	25		24.82	24.85	24.62
10	1	49		24.65	24.52	23.96
10	25	0		23.69	23.72	23.75
10	25	12		23.63	23.74	23.64
10	25	25		23.84	23.68	23.62
10	50	0		23.81	23.65	23.68
10	1	0	16-QAM	23.66	23.52	23.52
10	1	25		23.46	23.41	23.43
10	1	49		23.56	23.42	23.28
10	25	0		22.89	22.88	22.86
10	25	12		22.93	22.93	22.74
10	25	25		22.93	22.86	22.77
10	50	0		22.86	22.87	22.72
5	1	0	QPSK	24.36	24.33	24.12
5	1	12		24.73	24.70	24.44
5	1	24		24.27	24.22	24.02
5	12	0		23.51	23.54	23.57
5	12	7		23.52	23.54	23.57
5	12	13		23.52	23.62	23.64
5	25	0		23.54	23.60	23.56
5	1	0	16-QAM	23.47	23.41	23.35
5	1	12		23.32	23.19	23.03
5	1	24		23.28	23.30	23.35
5	12	0		22.57	22.76	22.63
5	12	7		22.65	22.68	22.66
5	12	13		22.69	22.54	22.74
5	25	0		22.61	22.77	22.74



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	24.38	24.26	24.24
3	1	8		24.48	24.33	24.27
3	1	14		24.40	24.27	24.26
3	8	0		23.49	23.50	23.53
3	8	4		23.59	23.59	23.48
3	8	7		23.53	23.55	23.54
3	15	0		23.47	23.48	23.49
3	1	0	16-QAM	23.45	23.13	23.13
3	1	8		23.30	23.00	23.00
3	1	14		23.37	23.31	23.22
3	8	0		22.62	22.30	22.73
3	8	4		22.55	22.37	22.68
3	8	7		22.67	22.72	22.43
3	15	0		22.47	22.67	22.44
1.4	1	0	QPSK	24.21	24.35	24.18
1.4	1	3		24.23	24.38	24.24
1.4	1	5		24.13	24.27	24.17
1.4	3	0		24.28	24.54	24.37
1.4	3	1		24.41	24.48	24.38
1.4	3	3		24.34	24.37	24.28
1.4	6	0		23.45	23.32	23.34
1.4	1	0	16-QAM	23.47	23.24	23.29
1.4	1	3		23.43	23.17	23.27
1.4	1	5		23.40	23.19	23.36
1.4	3	0		23.41	23.47	23.41
1.4	3	1		23.39	23.65	23.01
1.4	3	3		23.48	23.66	23.55
1.4	6	0		22.55	22.52	22.53

**EIRP**

LTE Band 25 ($G_T - L_C = 2.85$ dBi) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26047	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	24.28	24.54	24.37	24.48	24.33	24.27	24.73	24.70	24.44
Conducted Power (Watts)	0.2679	0.2844	0.2735	0.2805	0.2710	0.2673	0.2972	0.2951	0.2780
EIRP(dBm)	27.13	27.39	27.22	27.33	27.18	27.12	27.58	27.55	27.29
EIRP(Watts)	0.5164	0.5483	0.5272	0.5408	0.5224	0.5152	0.5728	0.5689	0.5358

LTE Band 25 ($G_T - L_C = 2.85$ dBi) QPSK									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	24.82	24.85	24.62	24.75	24.73	24.97	24.79	24.85	24.66
Conducted Power (Watts)	0.3034	0.3055	0.2897	0.2985	0.2972	0.3141	0.3013	0.3055	0.2924
EIRP(dBm)	27.67	27.70	27.47	27.60	27.58	27.82	27.64	27.70	27.51
EIRP(Watts)	0.5848	0.5888	0.5585	0.5754	0.5728	0.6053	0.5808	0.5888	0.5636



LTE Band 25 ($G_T - L_C = 2.85$ dBi) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26047	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	23.48	23.66	23.55	23.45	23.13	23.13	23.47	23.41	23.35
Conducted Power (Watts)	0.2228	0.2323	0.2265	0.2213	0.2056	0.2056	0.2223	0.2193	0.2163
EIRP(dBm)	26.33	26.51	26.40	26.30	25.98	25.98	26.32	26.26	26.20
EIRP(Watts)	0.4295	0.4477	0.4365	0.4266	0.3963	0.3963	0.4285	0.4227	0.4169

LTE Band 25 ($G_T - L_C = 2.85$ dBi) 16QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	23.66	23.52	23.52	23.74	23.65	23.40	23.63	23.76	23.35
Conducted Power (Watts)	0.2323	0.2249	0.2249	0.2366	0.2317	0.2188	0.2307	0.2377	0.2163
EIRP(dBm)	26.51	26.37	26.37	26.59	26.50	26.25	26.48	26.61	26.20
EIRP(Watts)	0.4477	0.4335	0.4335	0.4560	0.4467	0.4217	0.4446	0.4581	0.4169



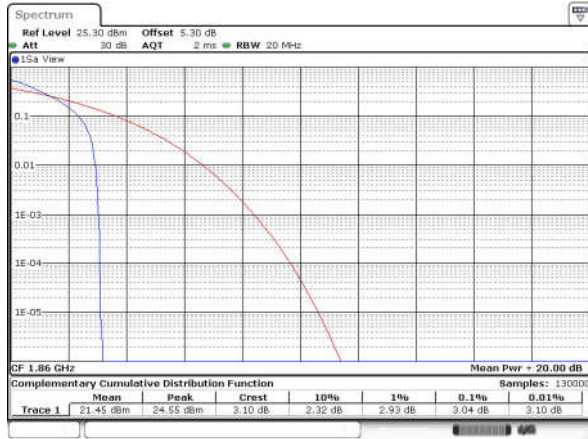
Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.04	4.64	4.12	5.57	PASS
Middle CH	4.35	4.64	5.51	5.62	
Highest CH	4.29	4.58	5.48	5.57	

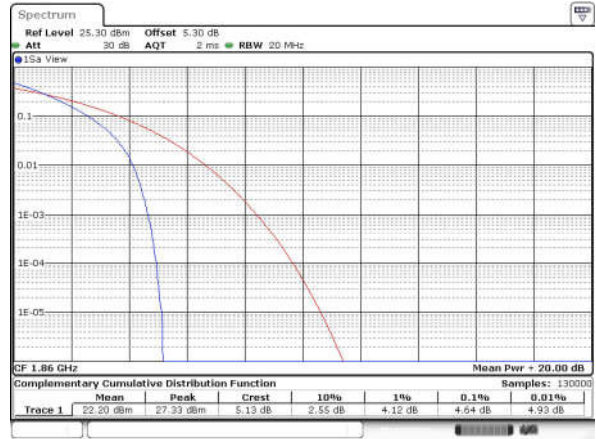


LTE Band 25 / 20MHz / QPSK

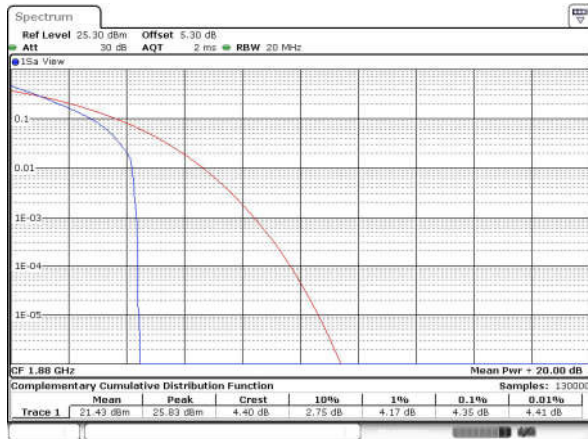
Lowest Channel / 1RB



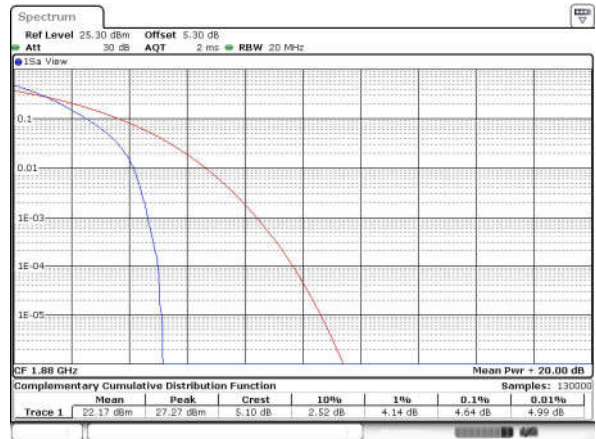
Lowest Channel / Full RB



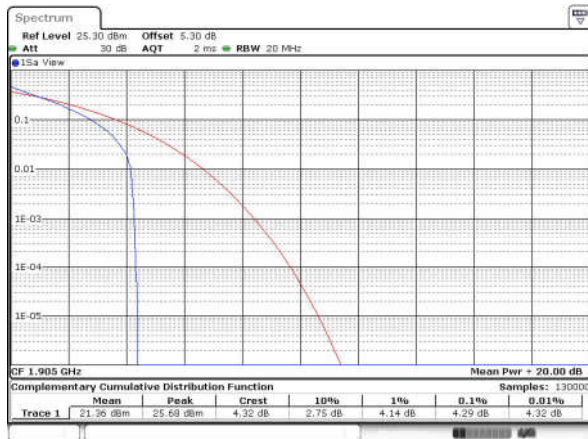
Middle Channel / 1RB



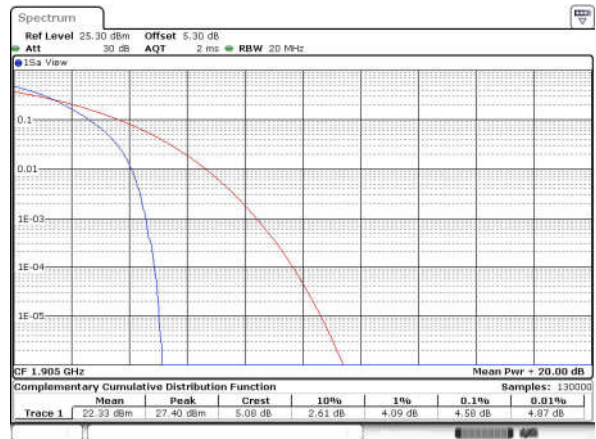
Middle Channel / Full RB



Highest Channel / 1RB



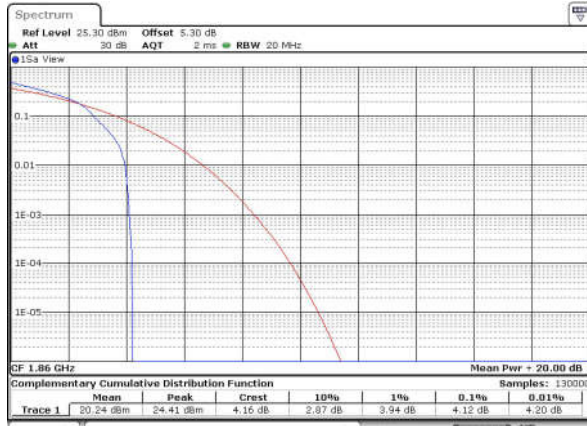
Highest Channel / Full RB



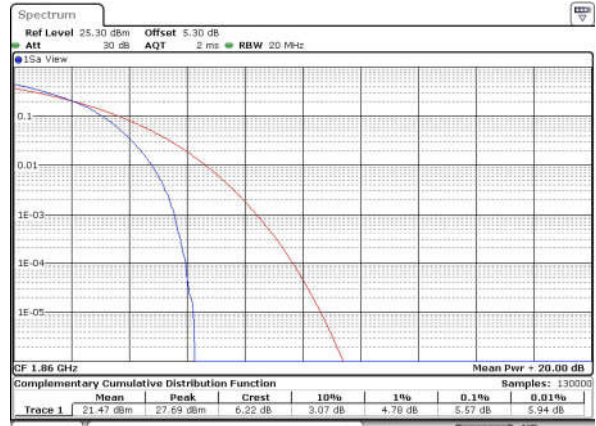


LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



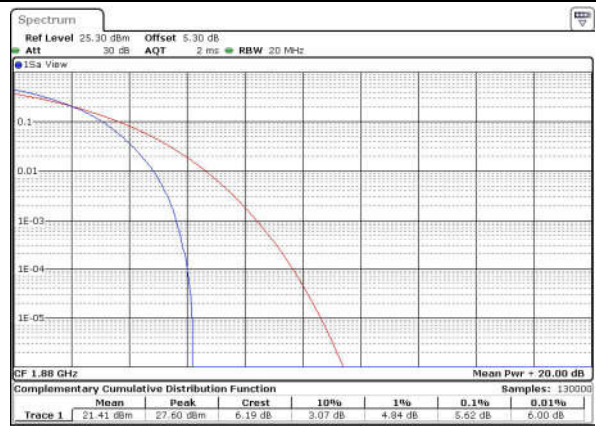
Lowest Channel / Full RB



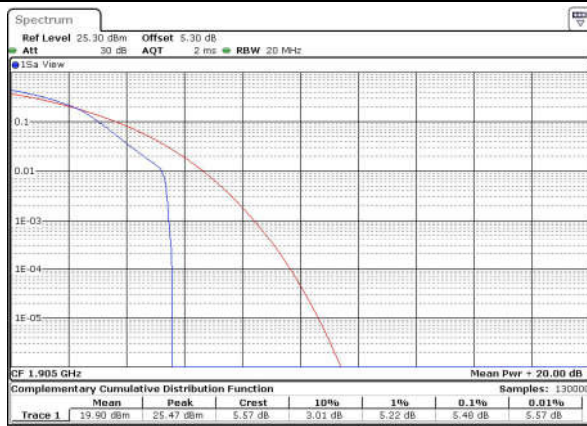
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



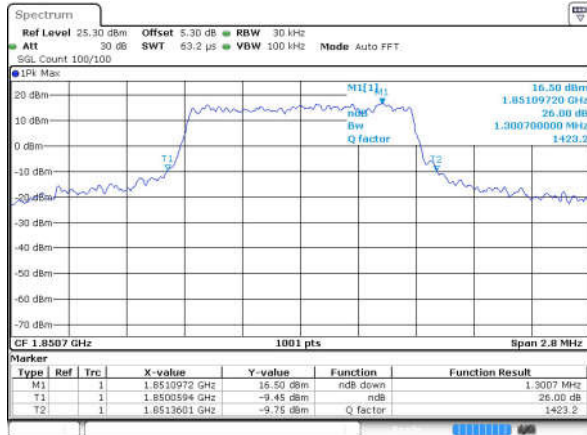
**26dB Bandwidth**

Mode	LTE Band 25 : 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	1.30	1.30	3.02	3.06	4.96	4.90	9.71	9.81	14.30	14.18	20.18	20.10
Middle CH	1.30	1.26	3.01	2.96	4.89	4.88	9.73	9.69	14.21	14.42	20.02	20.10
Highest CH	1.35	1.32	3.01	3.03	4.92	4.89	9.75	9.63	14.21	14.33	20.06	20.38



LTE Band 25

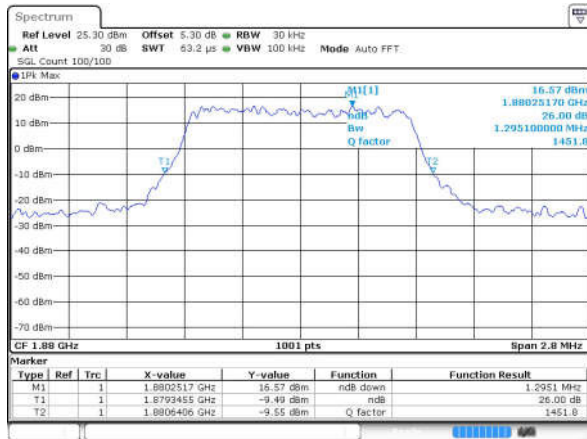
Lowest Channel / 1.4MHz / QPSK



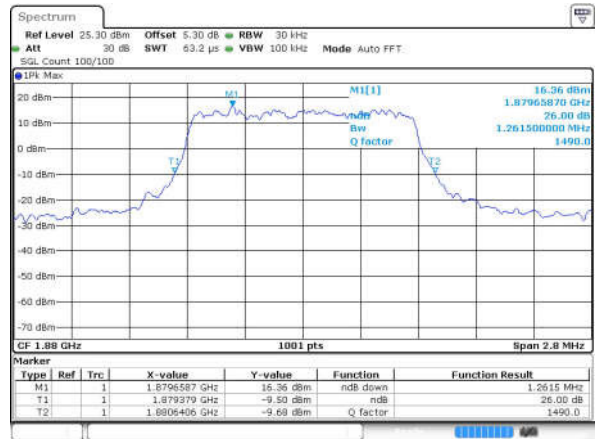
Lowest Channel / 1.4MHz / 16QAM



Middle Channel / 1.4MHz / QPSK



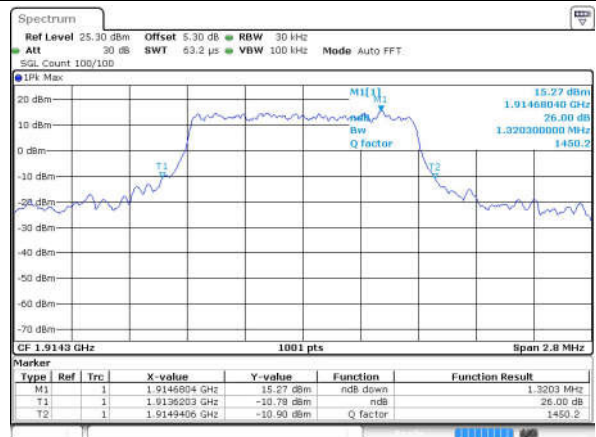
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



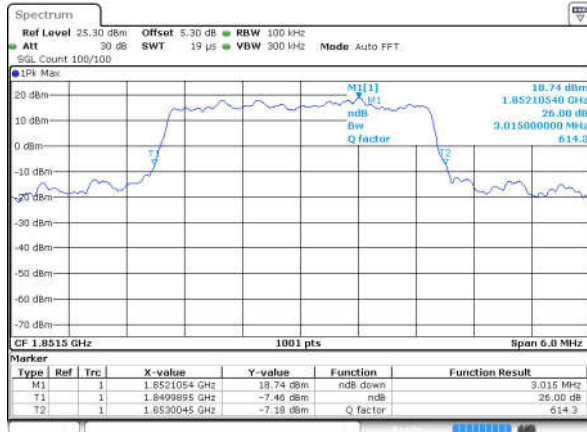
Highest Channel / 1.4MHz / 16QAM





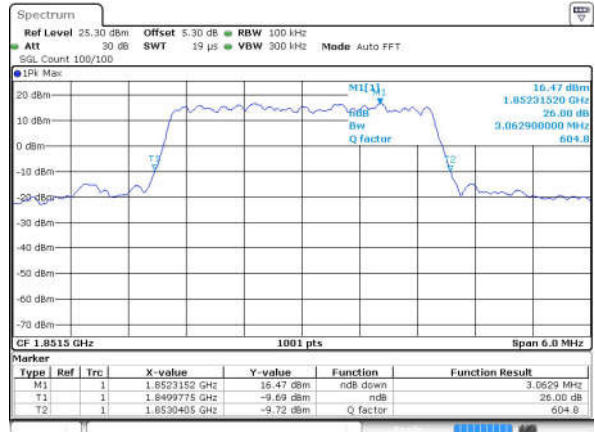
LTE Band 25

Lowest Channel / 3MHz / QPSK



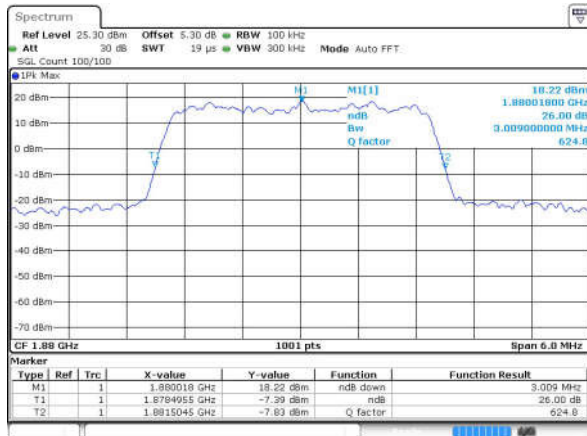
Date: 3.JAN.2017 11:54:32

Lowest Channel / 3MHz / 16QAM



Date: 3.JAN.2017 11:55:15

Middle Channel / 3MHz / QPSK



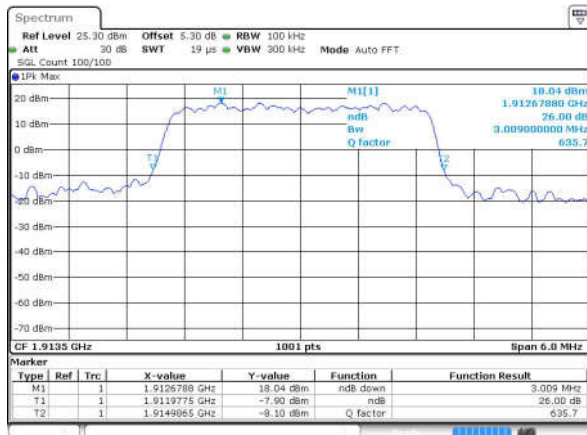
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Middle Channel / 3MHz / 16QAM



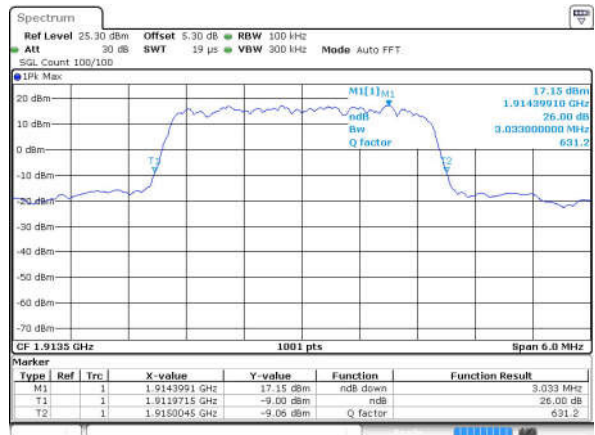
Date: 3.JAN.2017 13:55:41

Highest Channel / 3MHz / QPSK



Date: 3.JAN.2017 10:31:38

Highest Channel / 3MHz / 16QAM

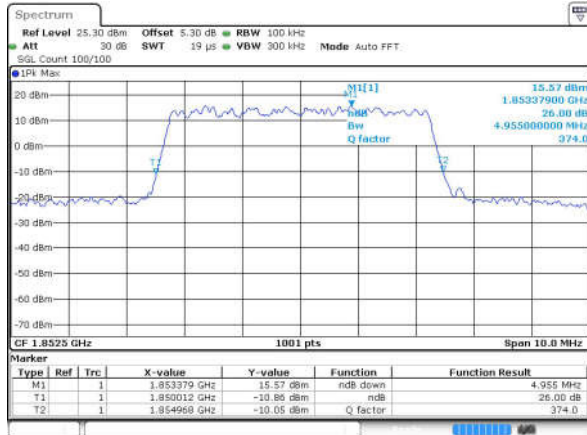


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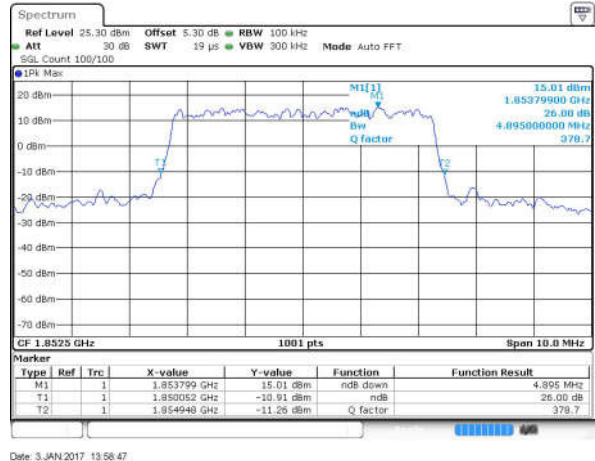


LTE Band 25

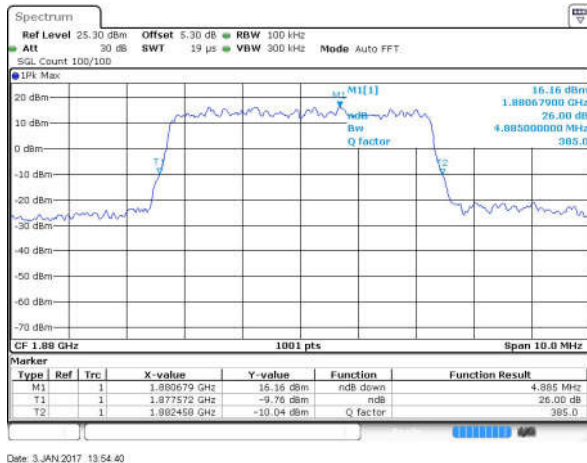
Lowest Channel / 5MHz / QPSK



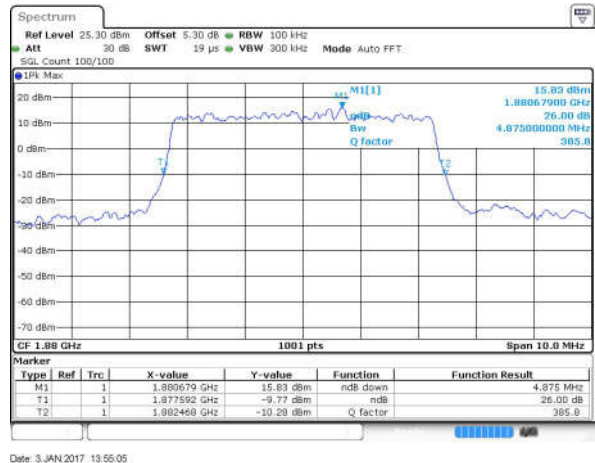
Lowest Channel / 5MHz / 16QAM



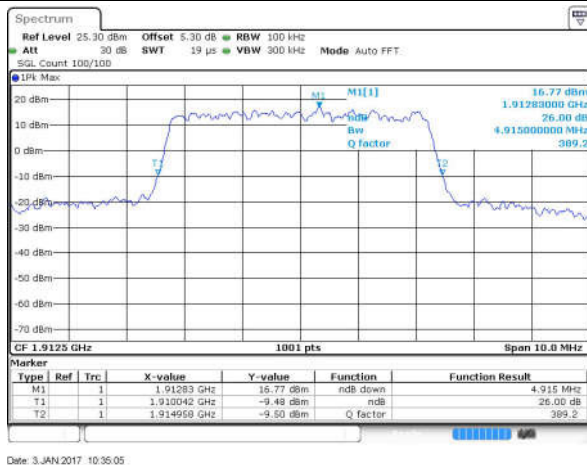
Middle Channel / 5MHz / QPSK



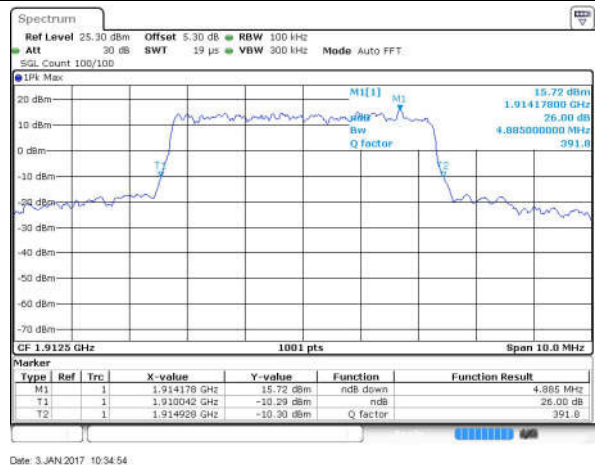
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



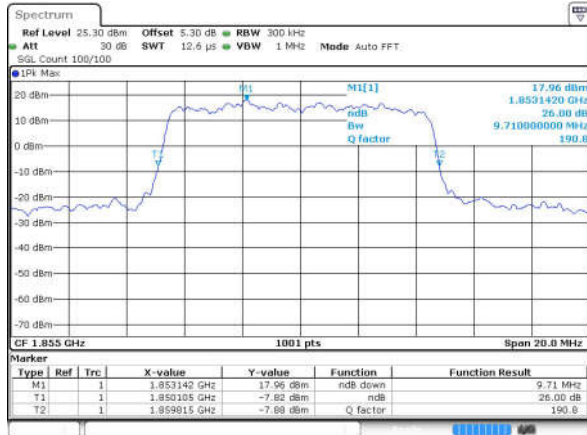
Highest Channel / 5MHz / 16QAM



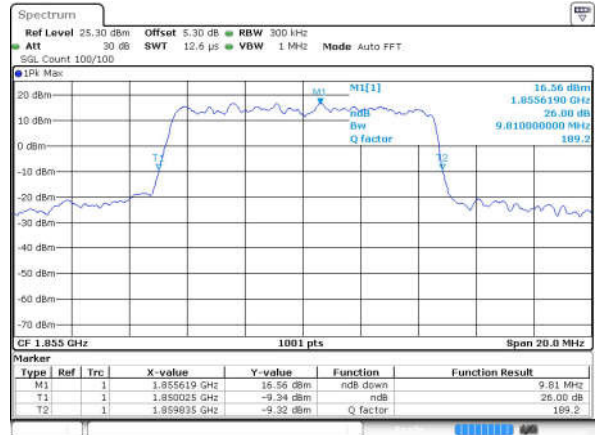


LTE Band 25

Lowest Channel / 10MHz / QPSK



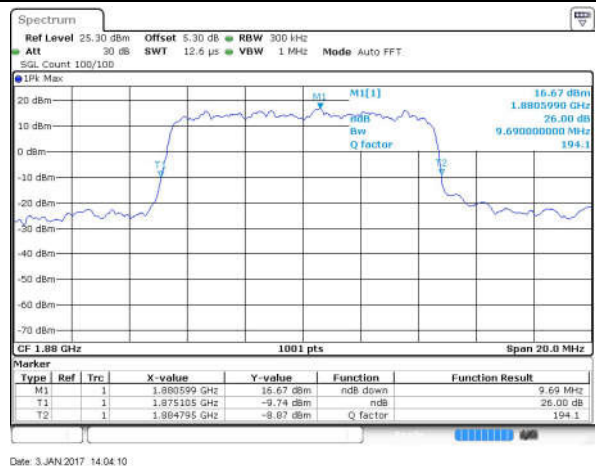
Lowest Channel / 10MHz / 16QAM



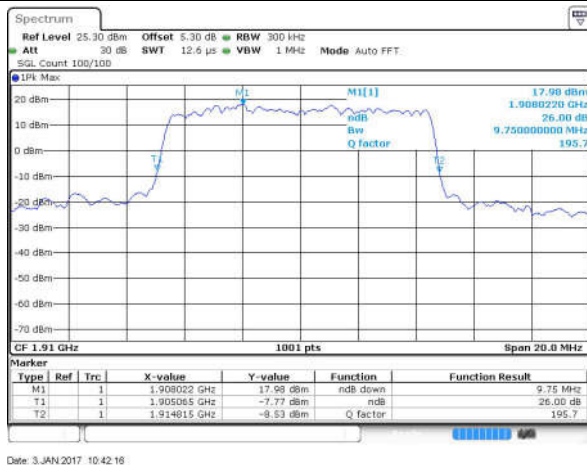
Middle Channel / 10MHz / QPSK



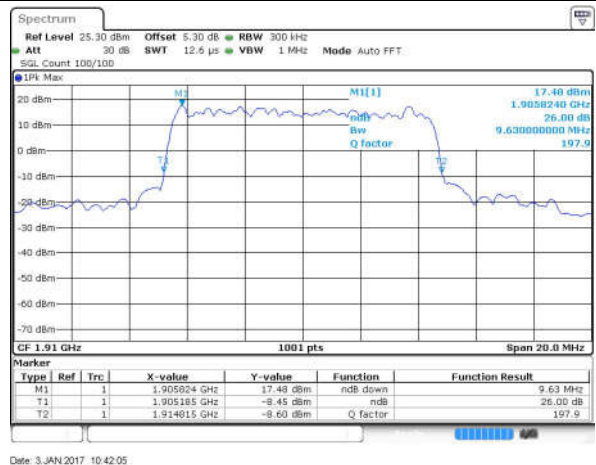
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



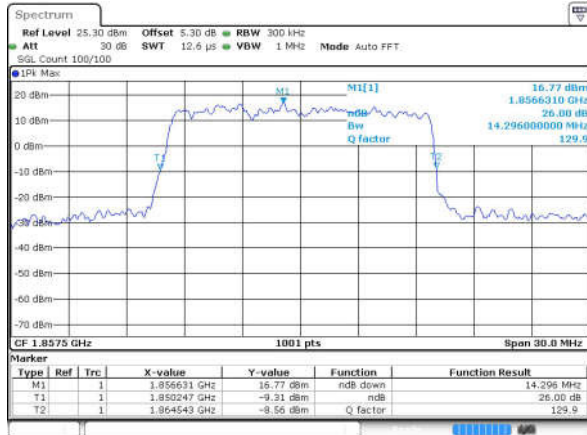
Highest Channel / 10MHz / 16QAM





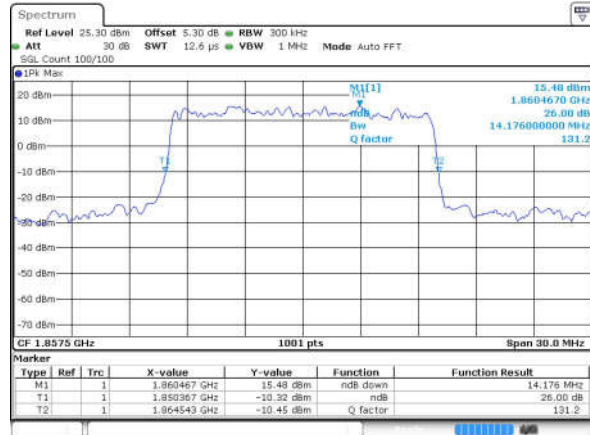
LTE Band 25

Lowest Channel / 15MHz / QPSK



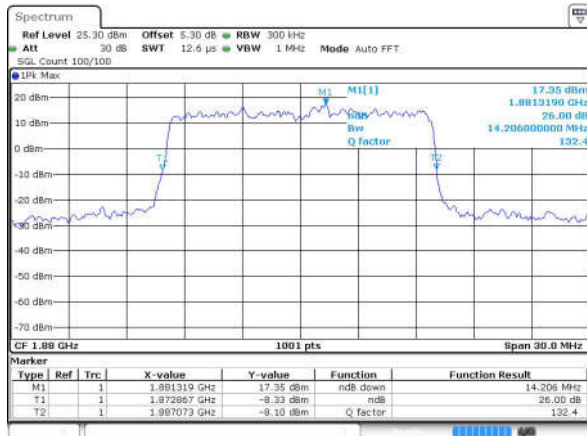
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Lowest Channel / 15MHz / 16QAM



Date: 3.JAN.2017 14:18:01

Middle Channel / 15MHz / QPSK



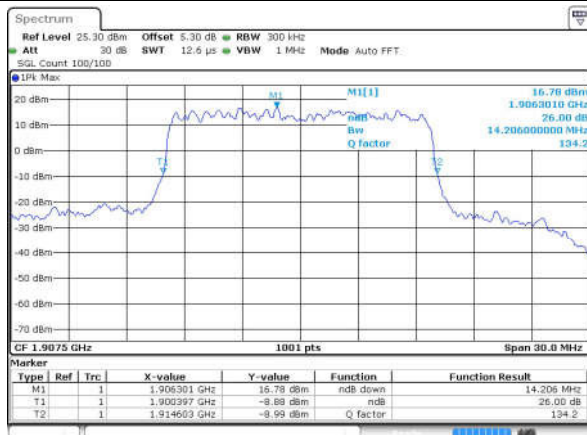
Date: 3.JAN.2017 14:17:14

Middle Channel / 15MHz / 16QAM



Date: 3.JAN.2017 14:17:37

Highest Channel / 15MHz / QPSK



Date: 3.JAN.2017 10:49:28

Highest Channel / 15MHz / 16QAM



Date: 3.JAN.2017 10:49:15

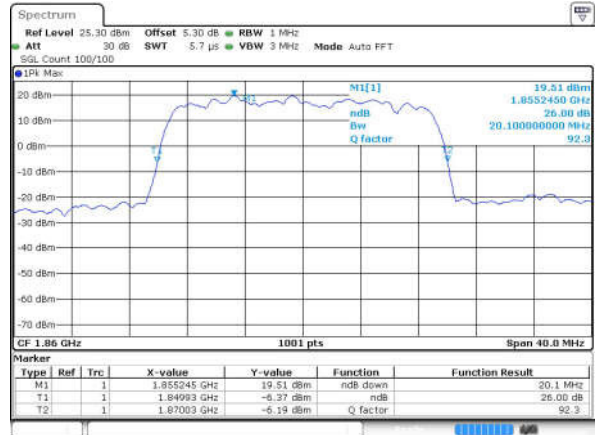


LTE Band 25

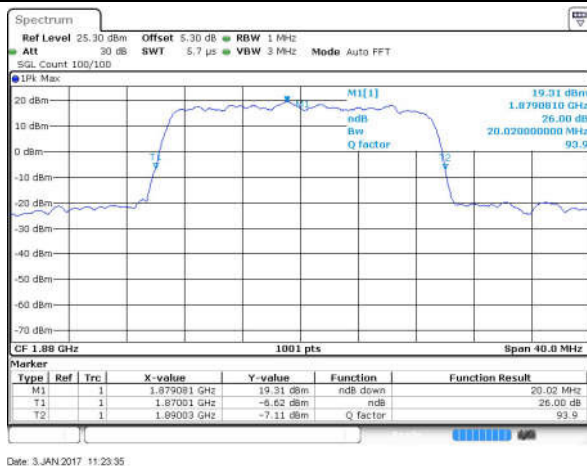
Lowest Channel / 20MHz / QPSK



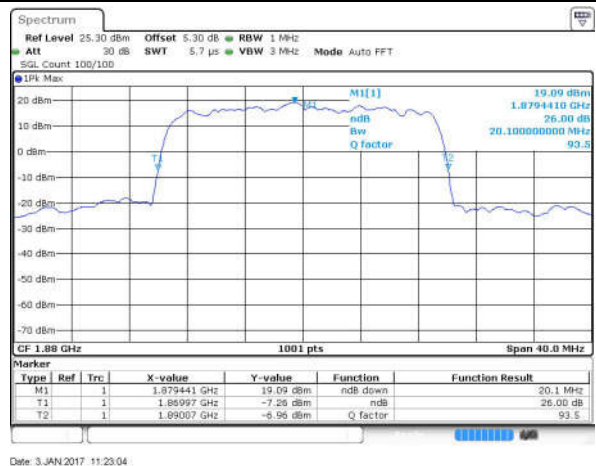
Lowest Channel / 20MHz / 16QAM



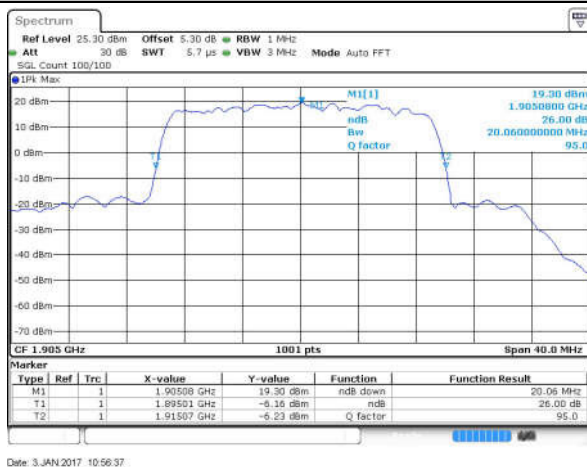
Middle Channel / 20MHz / QPSK



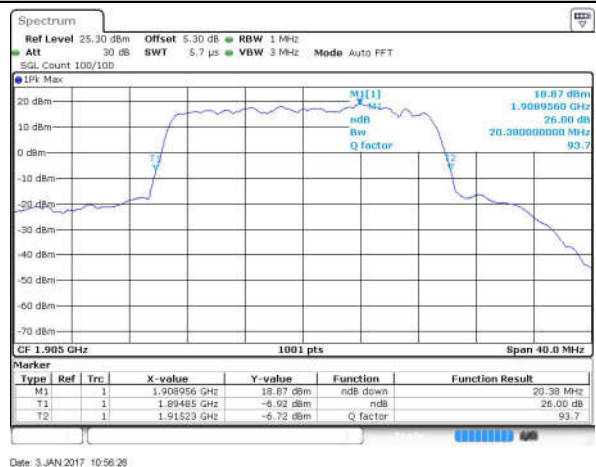
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



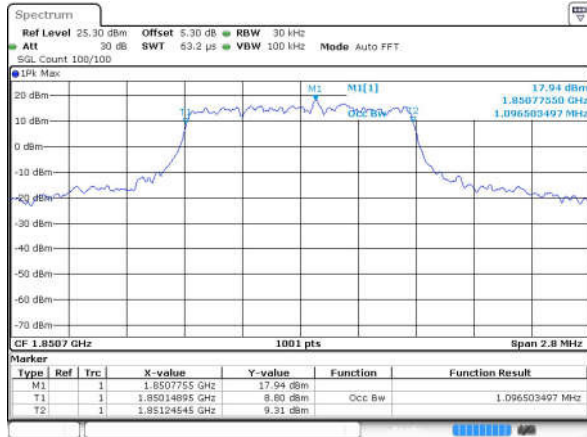
**Occupied Bandwidth**

Mode	LTE Band 25 : 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	1.10	1.10	2.73	2.72	4.51	4.47	9.09	8.97	13.34	13.37	18.26	18.14
Middle CH	1.10	1.09	2.70	2.70	4.49	4.52	9.01	9.01	13.34	13.43	18.26	18.26
Highest CH	1.09	1.09	2.72	2.73	4.49	4.50	9.01	8.99	13.37	13.43	18.06	18.26



LTE Band 25

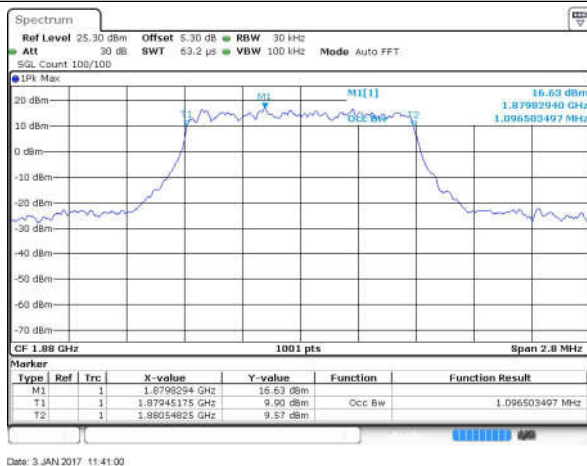
Lowest Channel / 1.4MHz / QPSK



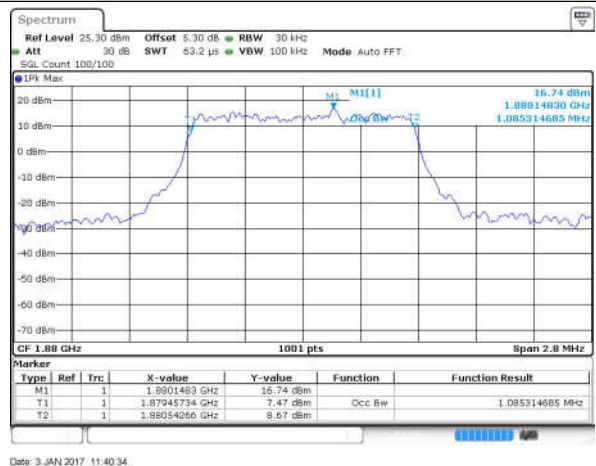
Lowest Channel / 1.4MHz / 16QAM



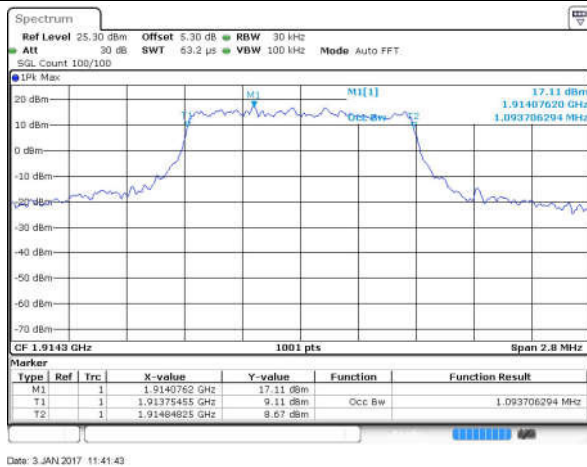
Middle Channel / 1.4MHz / QPSK



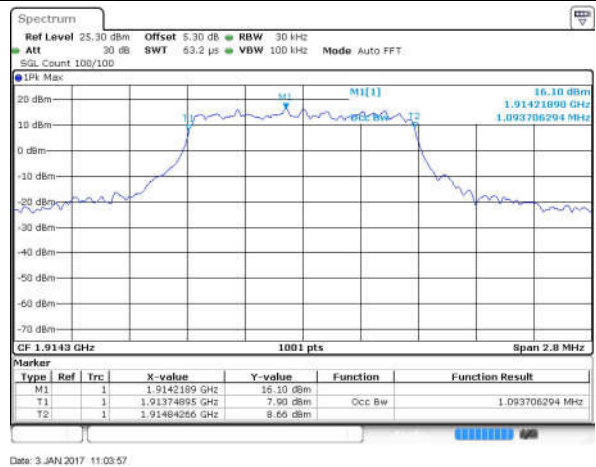
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



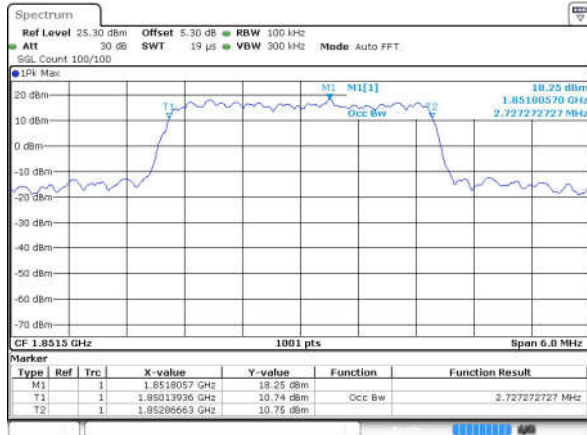
Highest Channel / 1.4MHz / 16QAM





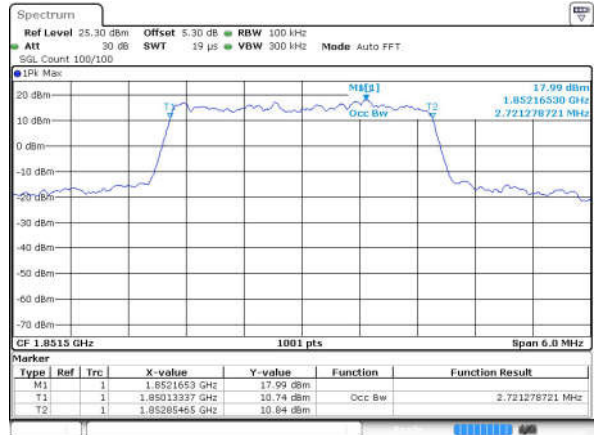
LTE Band 25

Lowest Channel / 3MHz / QPSK



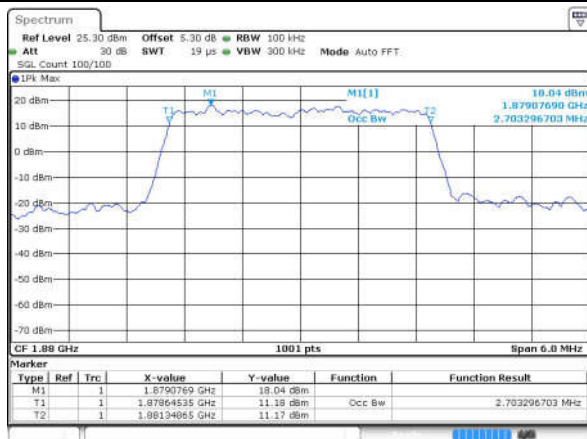
Date: 3.JAN.2017 11:54:13

Lowest Channel / 3MHz / 16QAM



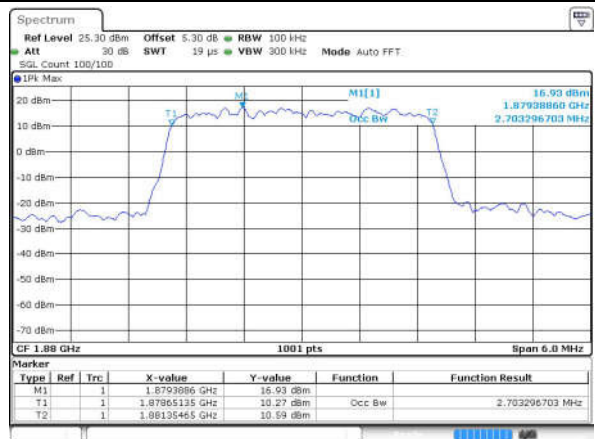
Date: 3.JAN.2017 11:54:55

Middle Channel / 3MHz / QPSK



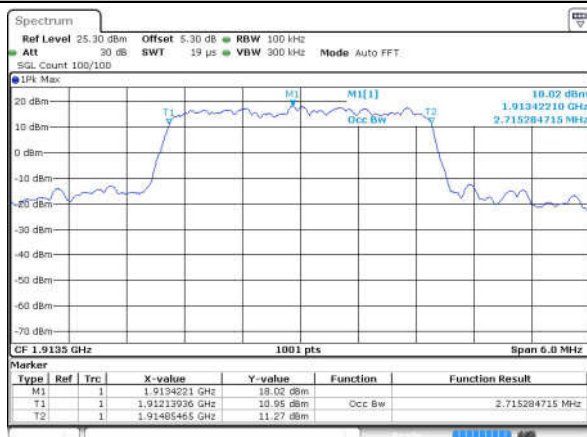
Date: 3.JAN.2017 13:53:53

Middle Channel / 3MHz / 16QAM



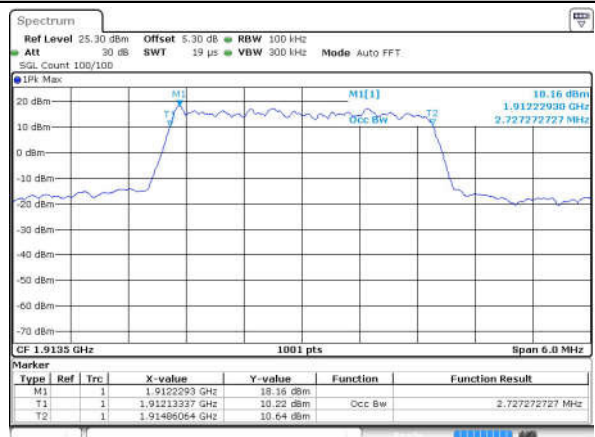
Date: 3.JAN.2017 13:53:30

Highest Channel / 3MHz / QPSK



Date: 3.JAN.2017 10:31:05

Highest Channel / 3MHz / 16QAM

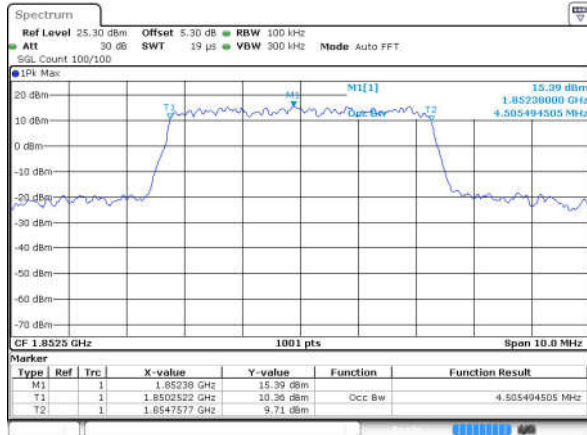


Date: 3.JAN.2017 10:31:16

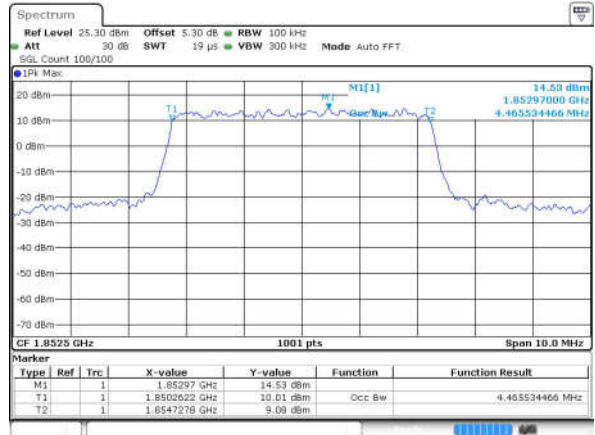


LTE Band 25

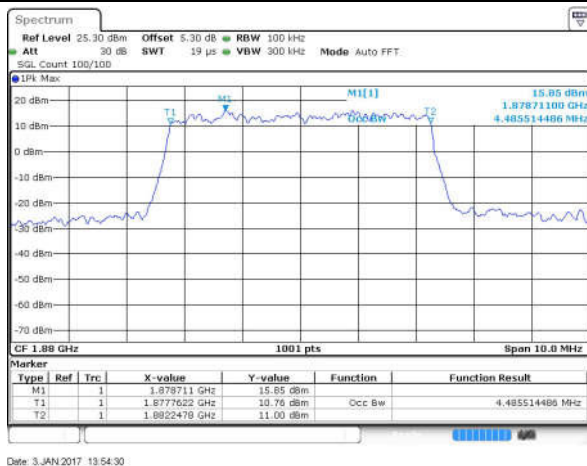
Lowest Channel / 5MHz / QPSK



Lowest Channel / 5MHz / 16QAM



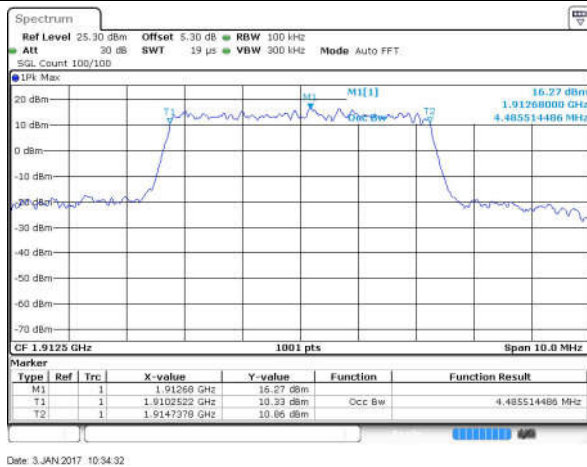
Middle Channel / 5MHz / QPSK



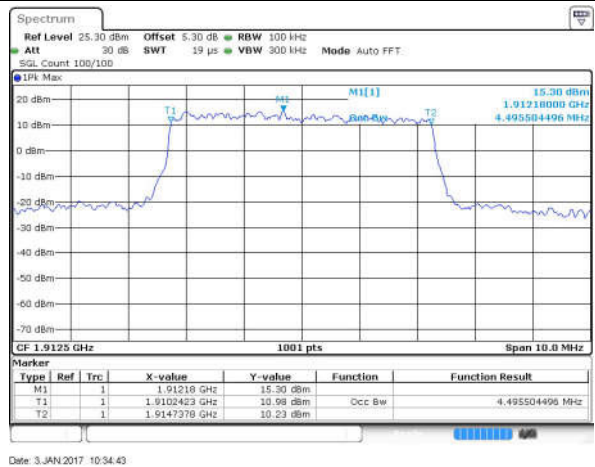
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



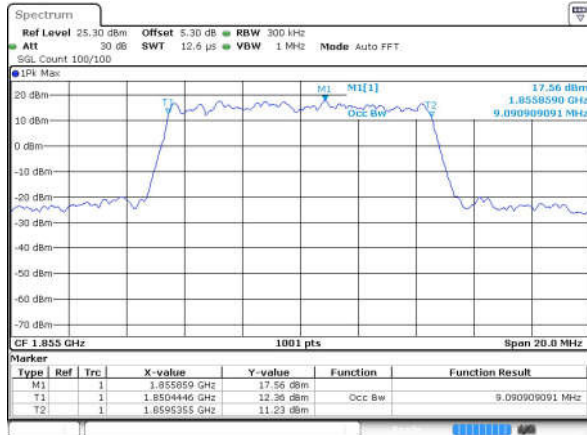
Highest Channel / 5MHz / 16QAM



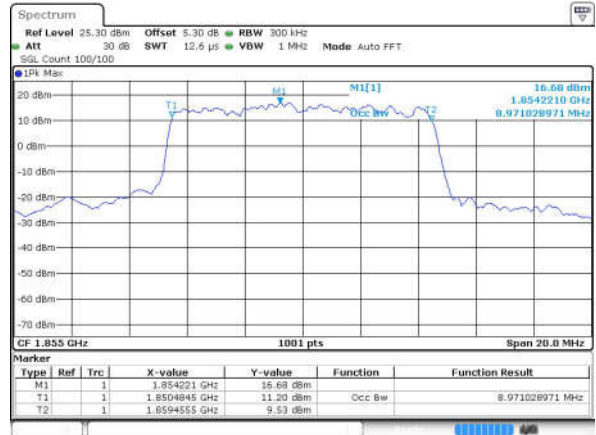


LTE Band 25

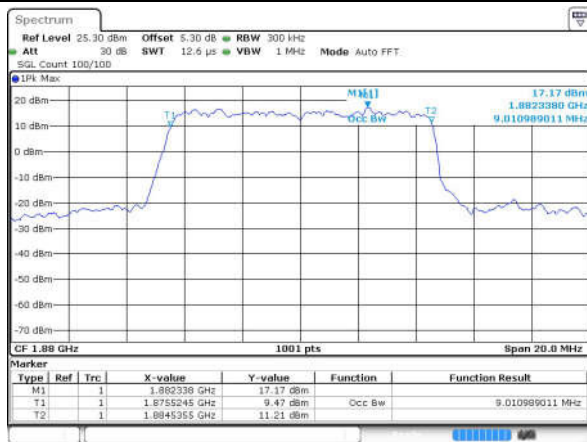
Lowest Channel / 10MHz / QPSK



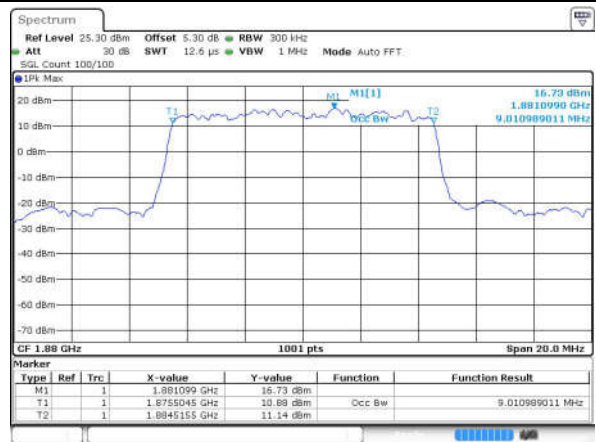
Lowest Channel / 10MHz / 16QAM



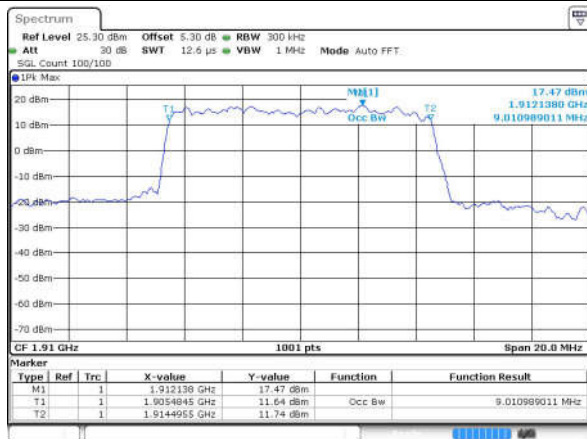
Middle Channel / 10MHz / QPSK



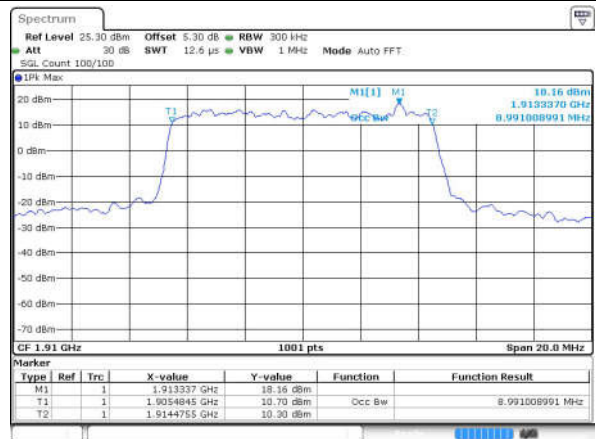
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



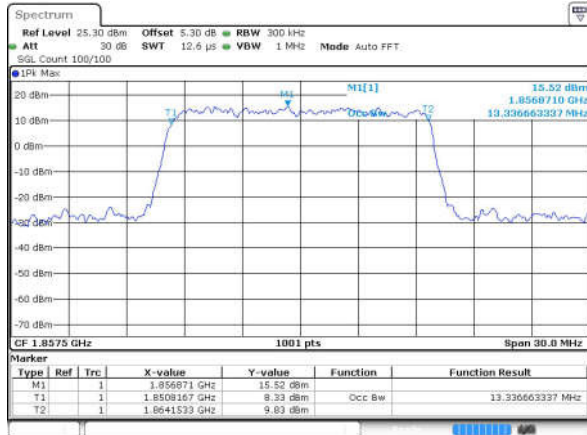
Highest Channel / 10MHz / 16QAM





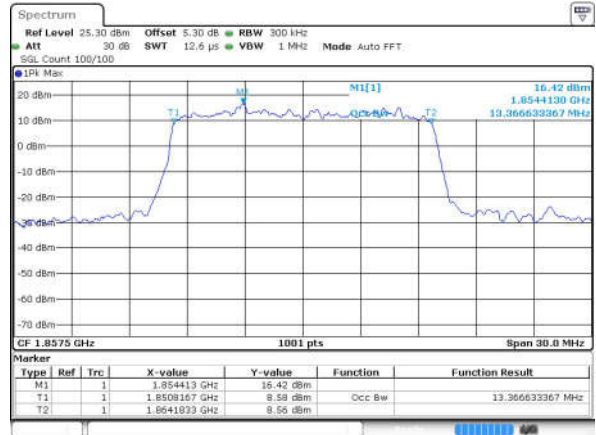
LTE Band 25

Lowest Channel / 15MHz / QPSK



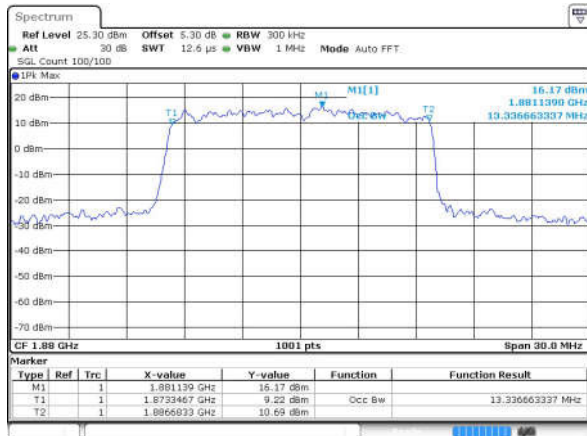
Date: 3.JAN.2017 14:18:17

Lowest Channel / 15MHz / 16QAM



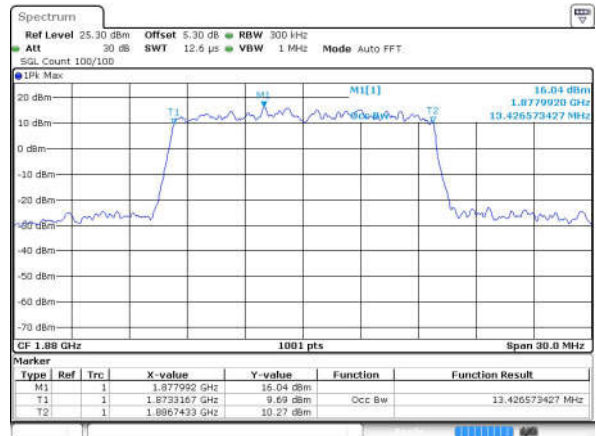
Date: 3.JAN.2017 14:17:51

Middle Channel / 15MHz / QPSK



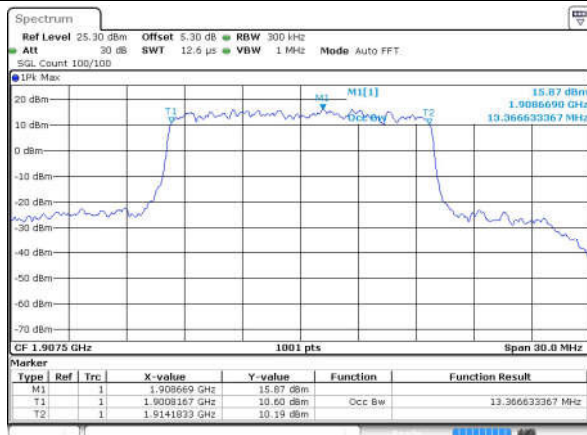
Date: 3.JAN.2017 14:17:04

Middle Channel / 15MHz / 16QAM



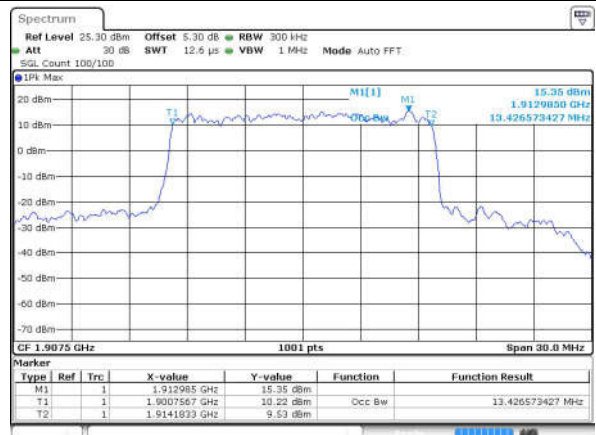
Date: 3.JAN.2017 14:17:26

Highest Channel / 15MHz / QPSK



Date: 3.JAN.2017 10:48:53

Highest Channel / 15MHz / 16QAM

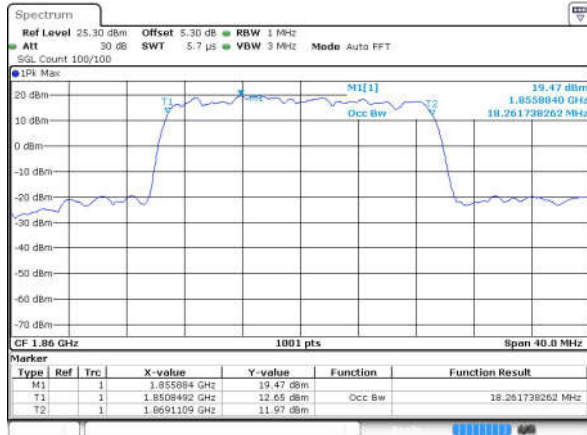


Date: 3.JAN.2017 10:49:04

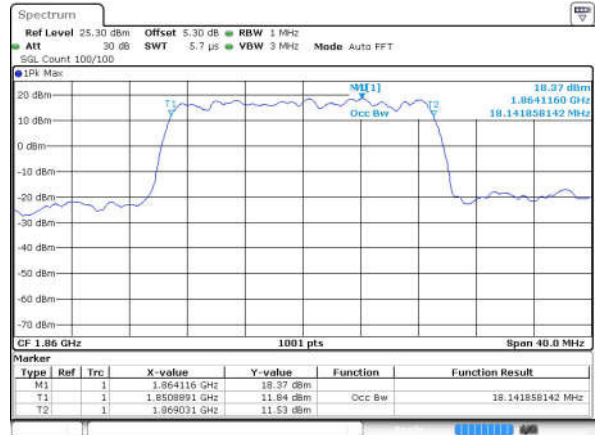


LTE Band 25

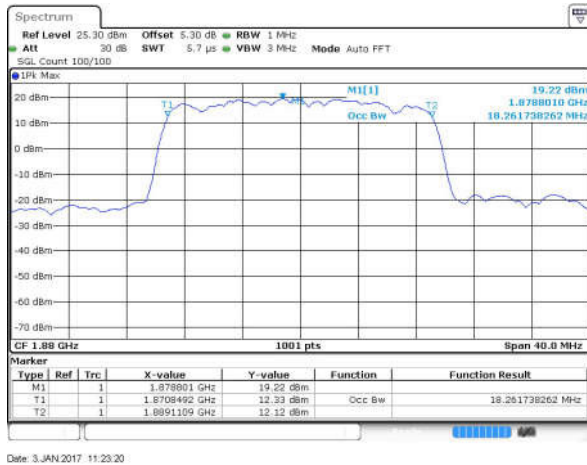
Lowest Channel / 20MHz / QPSK



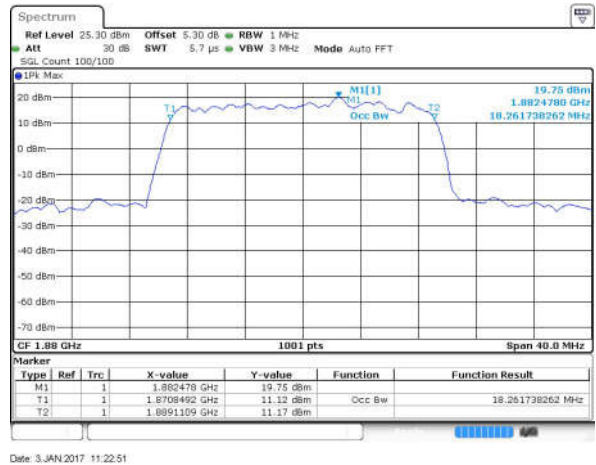
Lowest Channel / 20MHz / 16QAM



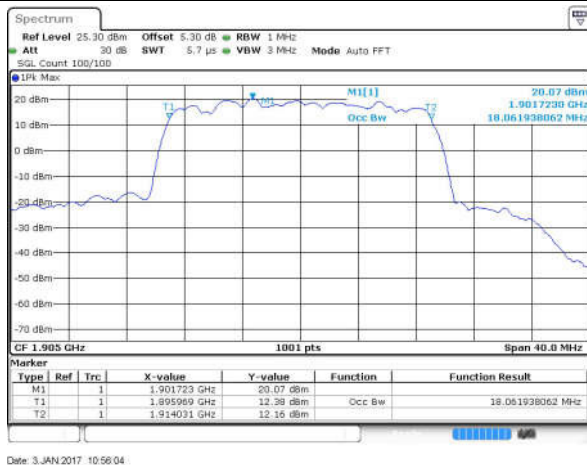
Middle Channel / 20MHz / QPSK



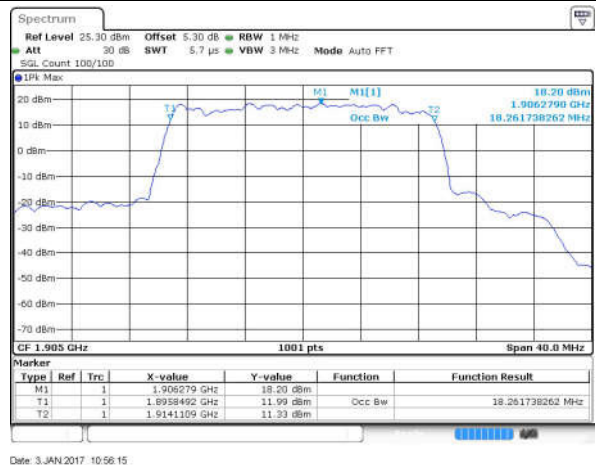
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

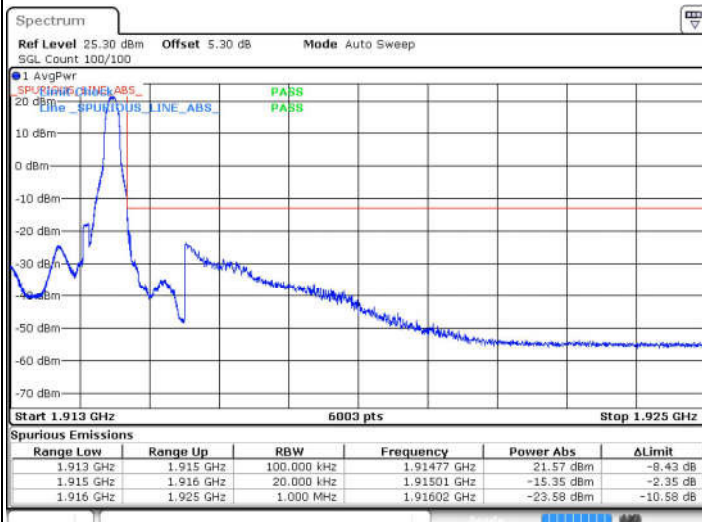


Highest Channel / 20MHz / 16QAM

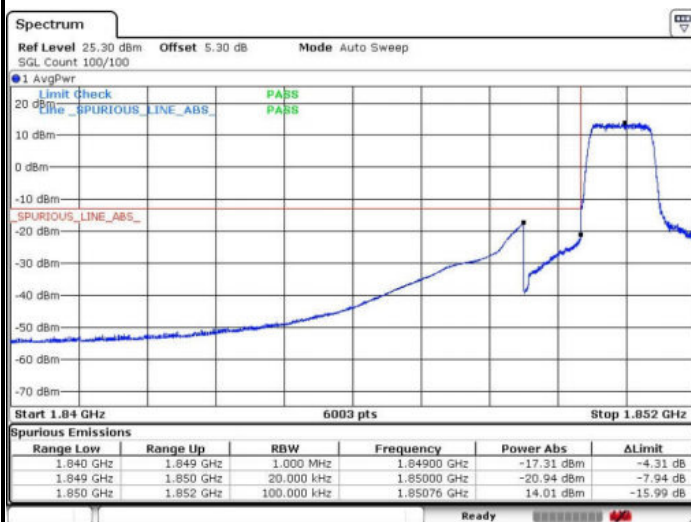


**Conducted Band Edge****LTE Band 25 / 1.4MHz / QPSK****Lowest Band Edge / 1RB**

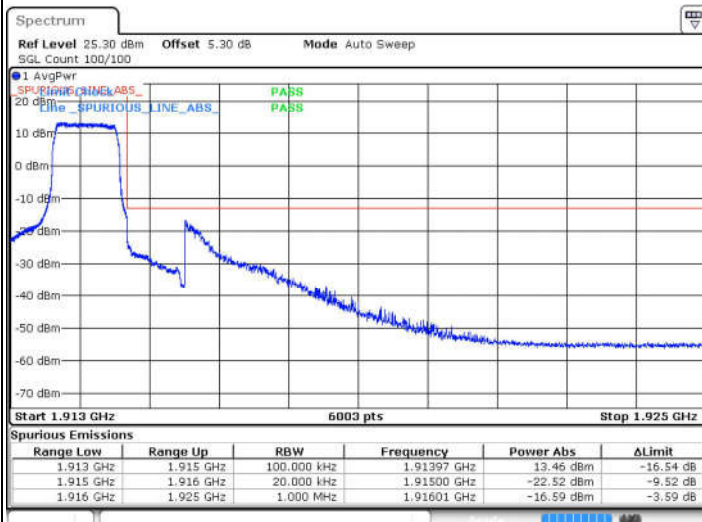
Date: 6 JAN 2017 12:57:16

Highest Band Edge / 1RB

Date: 3 JAN 2017 11:08:57

Lowest Band Edge / Full RB

Date: 6 JAN 2017 12:54:22

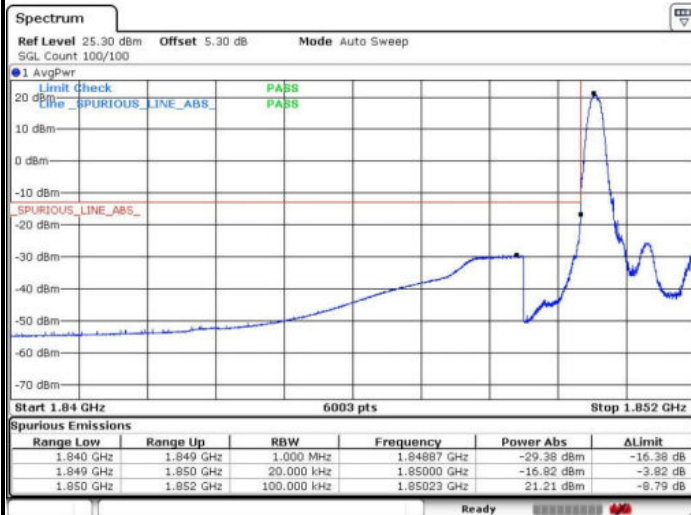
Highest Band Edge / Full RB

Date: 3 JAN 2017 11:05:30



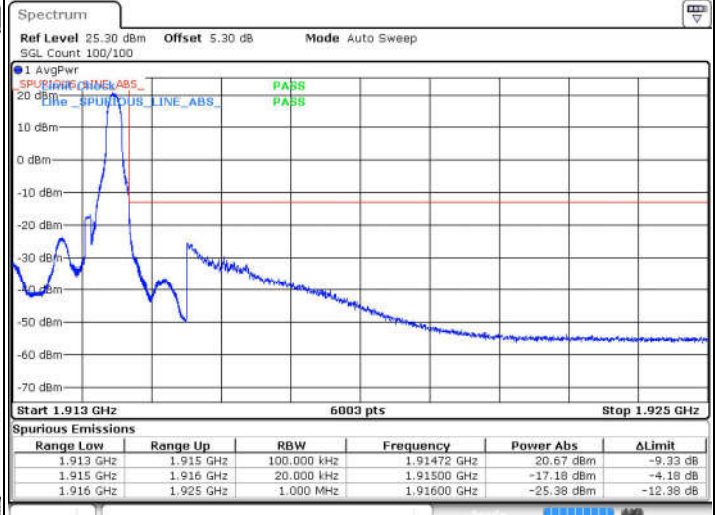
LTE Band 25 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



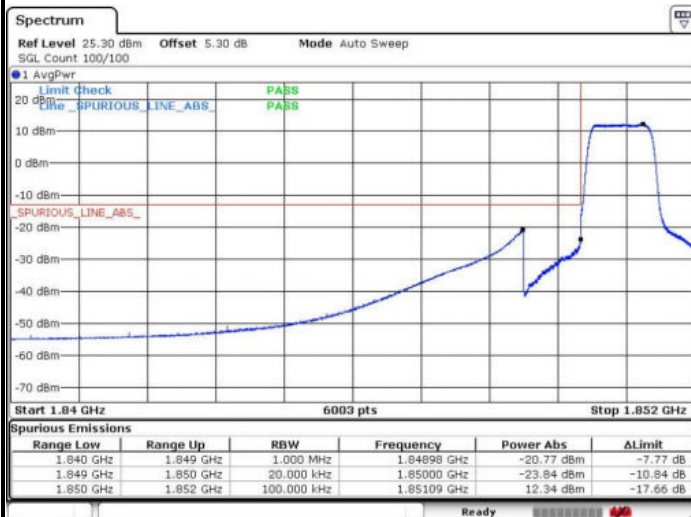
Date: 6 JAN 2017 12:58:45

Highest Band Edge / 1 RB



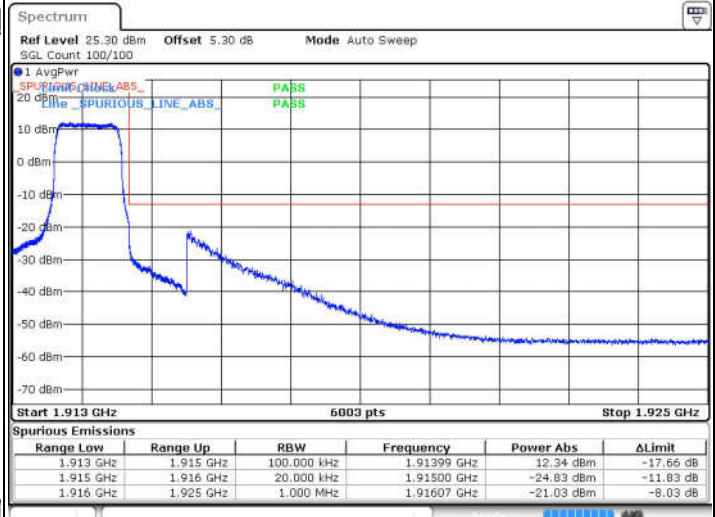
Date: 3 JAN 2017 11:07:48

Lowest Band Edge / Full RB



Date: 6 JAN 2017 12:51:28

Highest Band Edge / Full RB

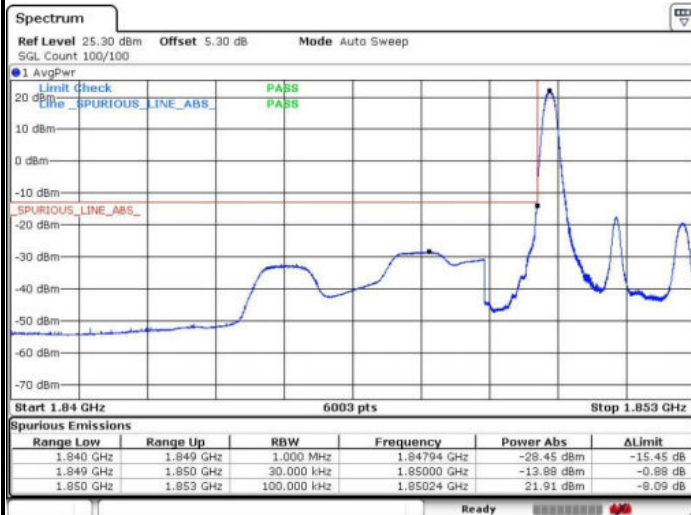


Date: 3 JAN 2017 11:06:39



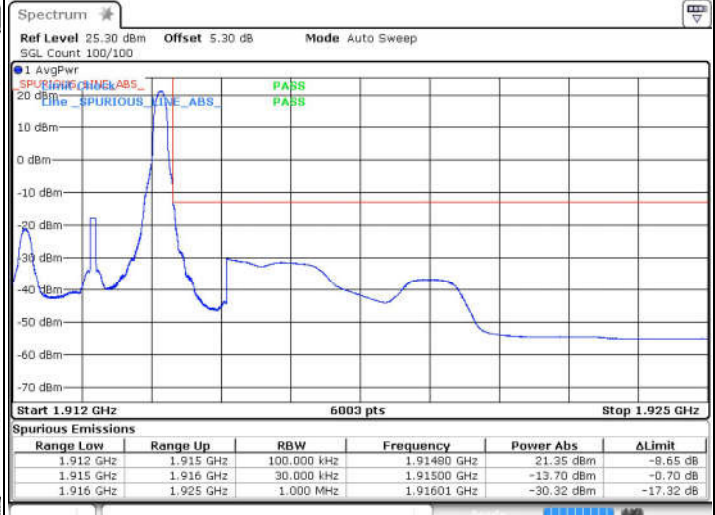
LTE Band 25 / 3MHz / QPSK

Lowest Band Edge / 1RB



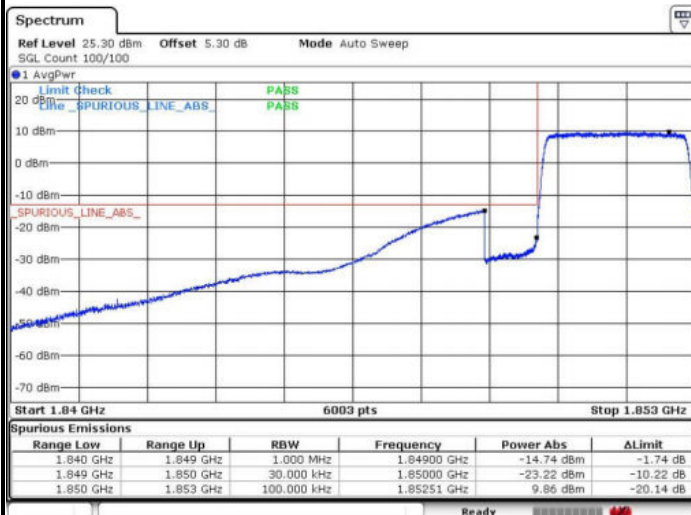
Date: 6 JAN 2017 13:05:51

Highest Band Edge / 1 RB



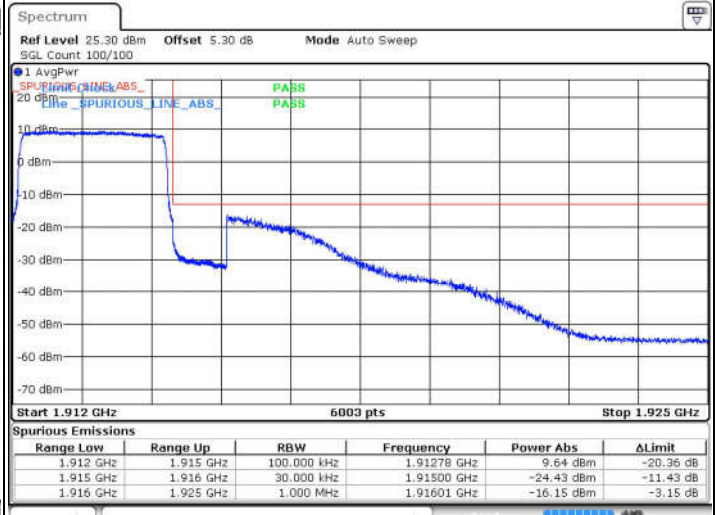
Date: 3 JAN 2017 10:16:14

Lowest Band Edge / Full RB



Date: 6 JAN 2017 13:03:16

Highest Band Edge / Full RB

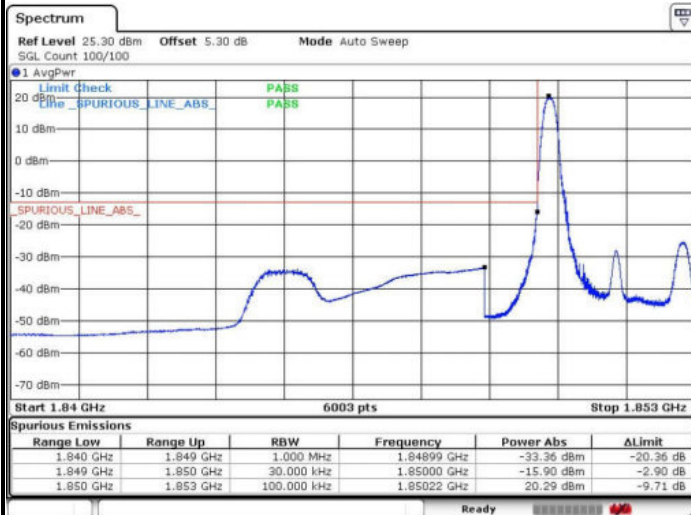


Date: 3 JAN 2017 10:21:19



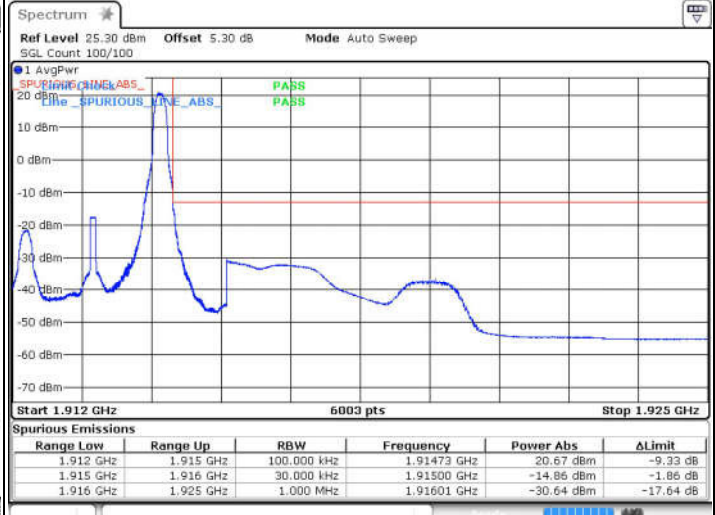
LTE Band 25 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



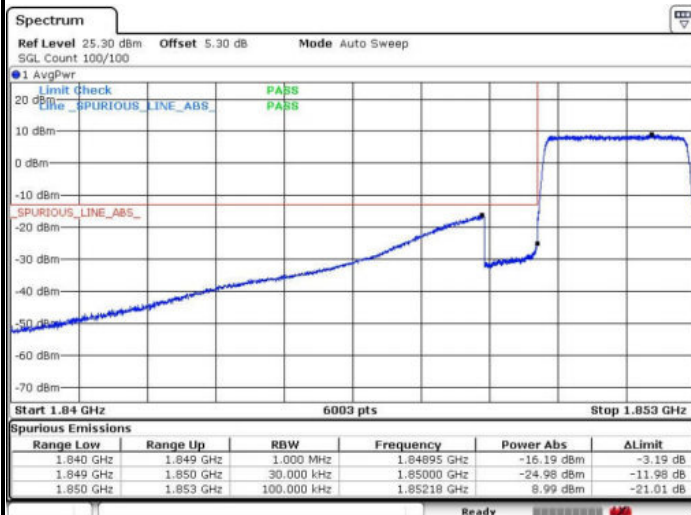
Date: 6 JAN 2017 13:07:20

Highest Band Edge / 1 RB



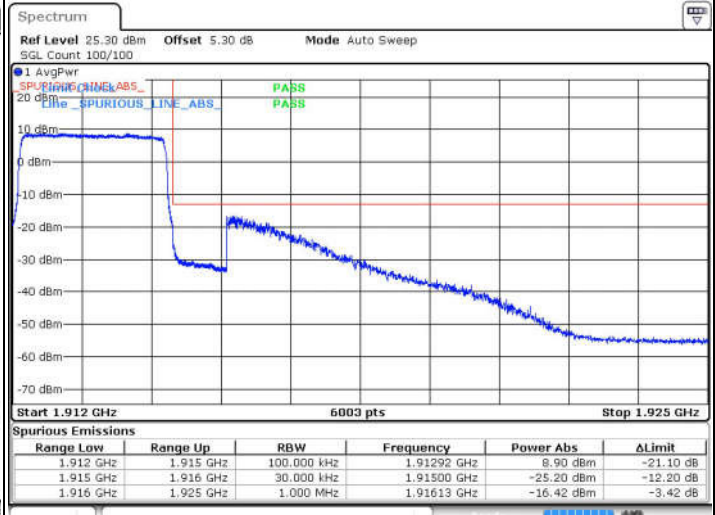
Date: 3 JAN 2017 10:19:36

Lowest Band Edge / Full RB



Date: 6 JAN 2017 13:02:02

Highest Band Edge / Full RB

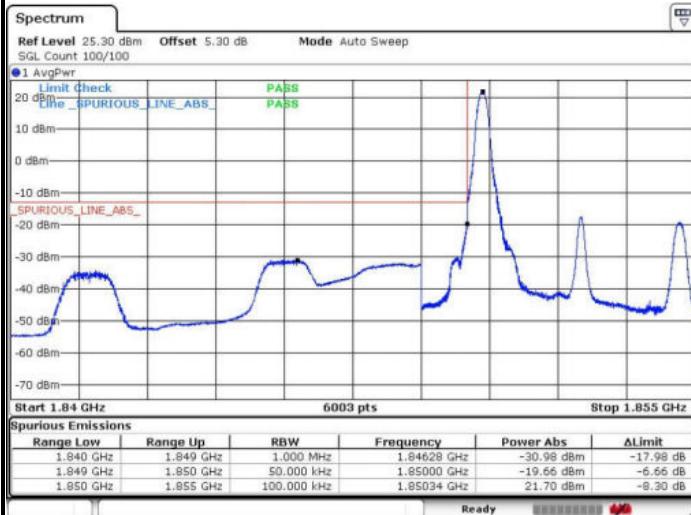


Date: 3 JAN 2017 10:20:29



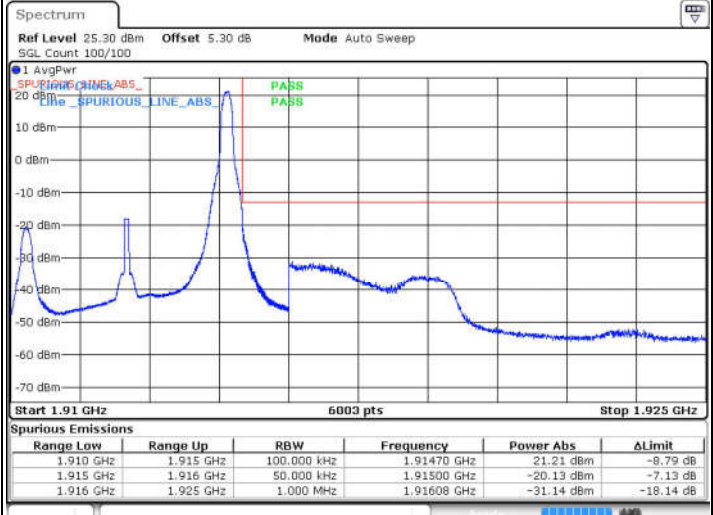
LTE Band 25 / 5MHz / QPSK

Lowest Band Edge / 1 RB



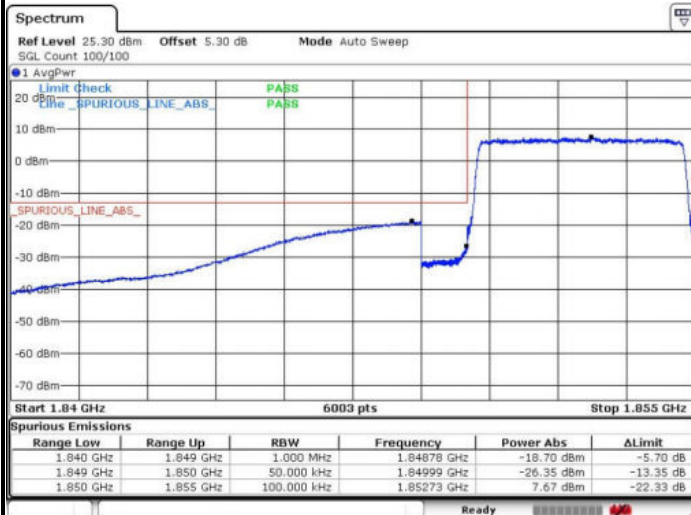
Date: 6 JAN 2017 13:11:22

Highest Band Edge / 1 RB



Date: 3 JAN 2017 10:39:40

Lowest Band Edge / Full RB



Date: 6 JAN 2017 13:10:44

Highest Band Edge / Full RB

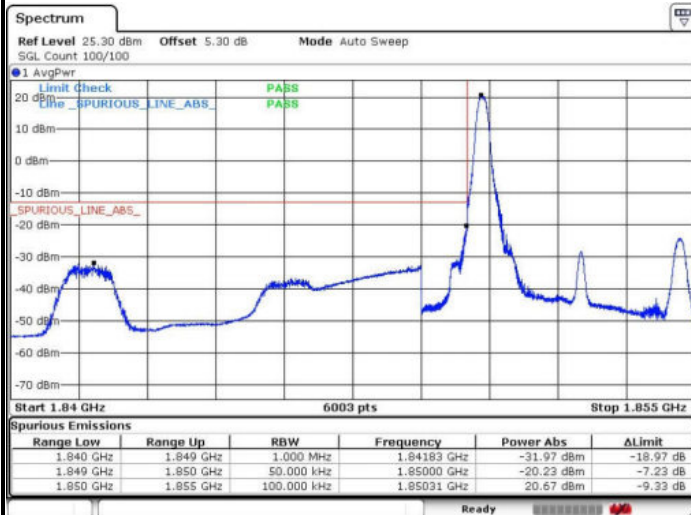


Date: 3 JAN 2017 10:36:14



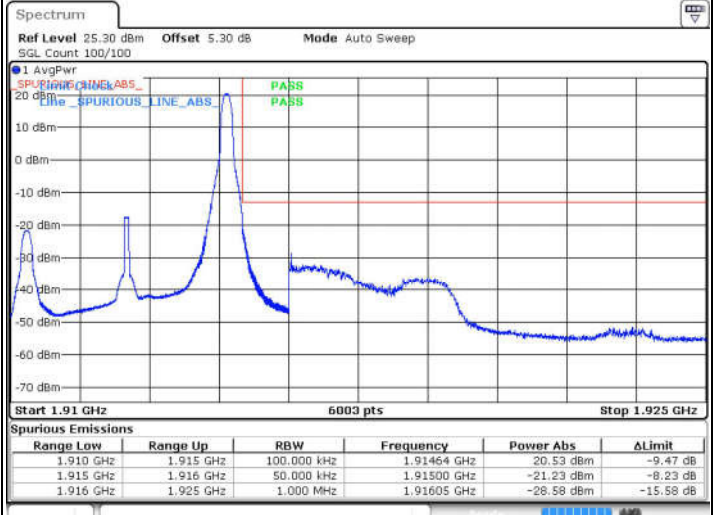
LTE Band 25 / 5MHz / 16QAM

Lowest Band Edge / 1RB



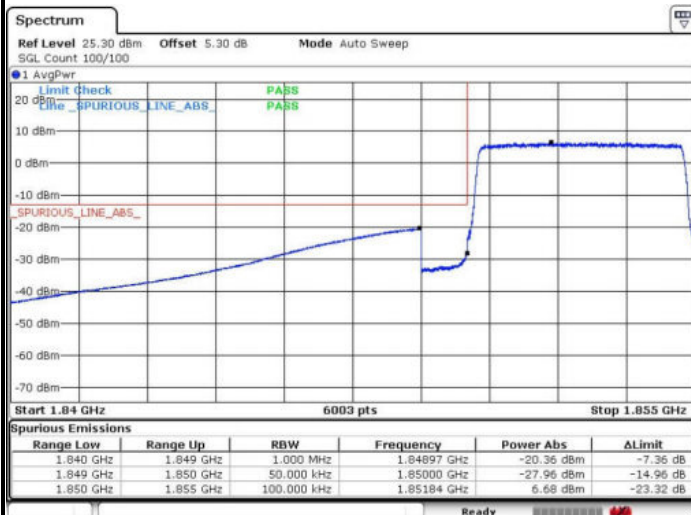
Date: 6 JAN 2017 13:12:09

Highest Band Edge / 1 RB



Date: 3 JAN 2017 10:38:31

Lowest Band Edge / Full RB



Date: 6 JAN 2017 13:09:38

Highest Band Edge / Full RB

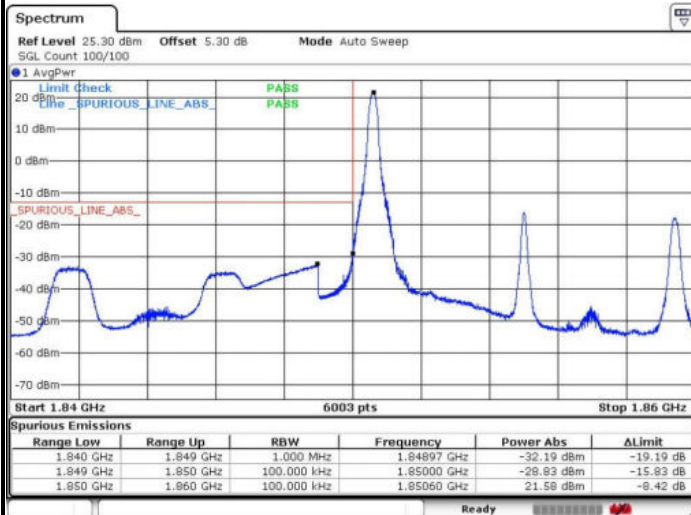


Date: 3 JAN 2017 10:37:23



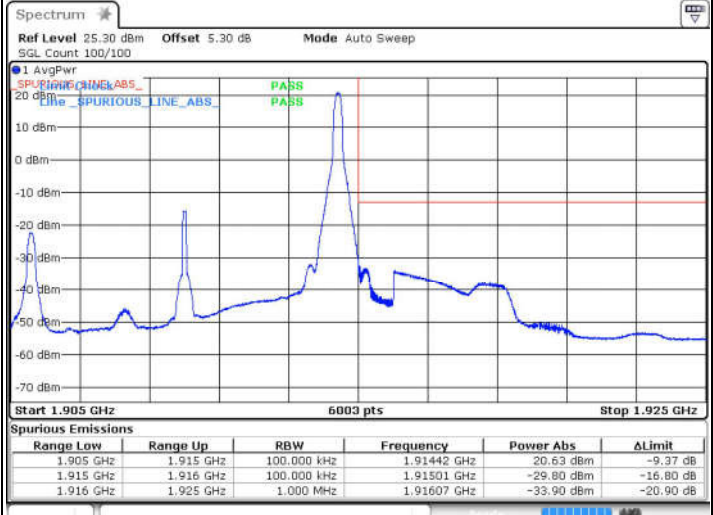
LTE Band 25 / 10MHz / QPSK

Lowest Band Edge / 1 RB



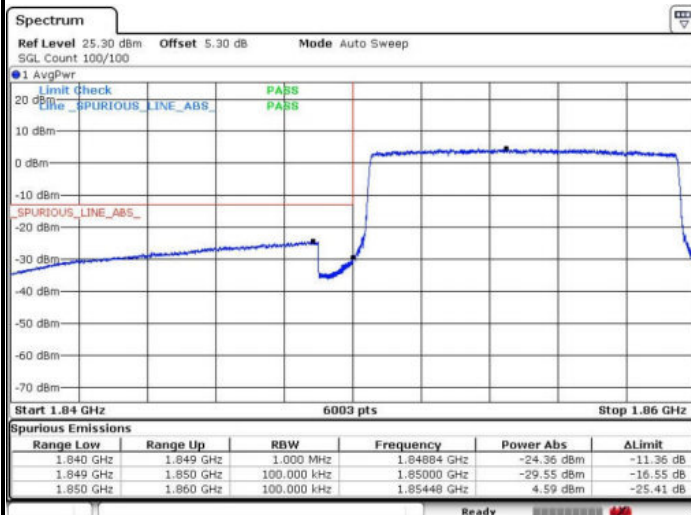
Date: 6 JAN 2017 13:15:37

Highest Band Edge / 1 RB



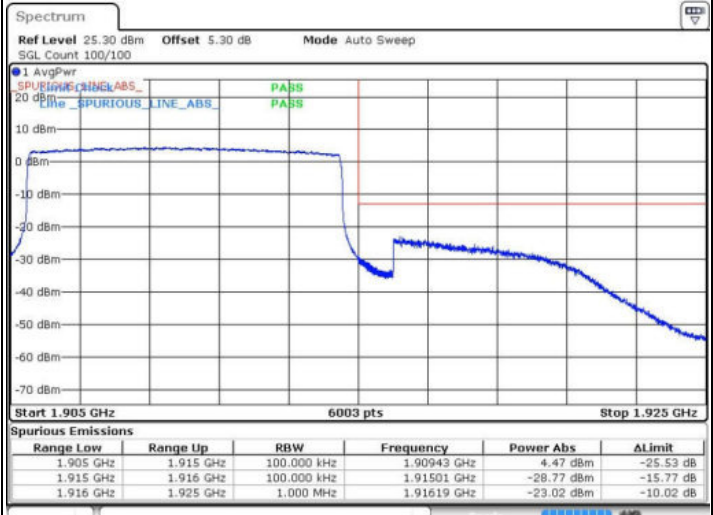
Date: 3 JAN 2017 14:13:30

Lowest Band Edge / Full RB



Date: 6 JAN 2017 13:15:01

Highest Band Edge / Full RB

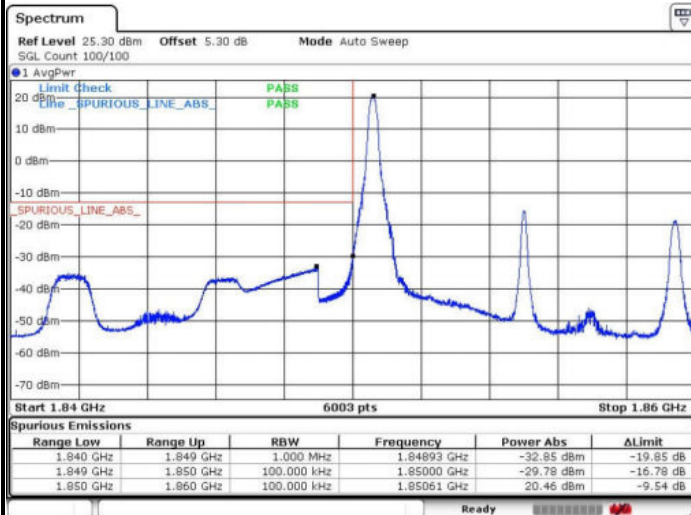


Date: 3 JAN 2017 10:43:25



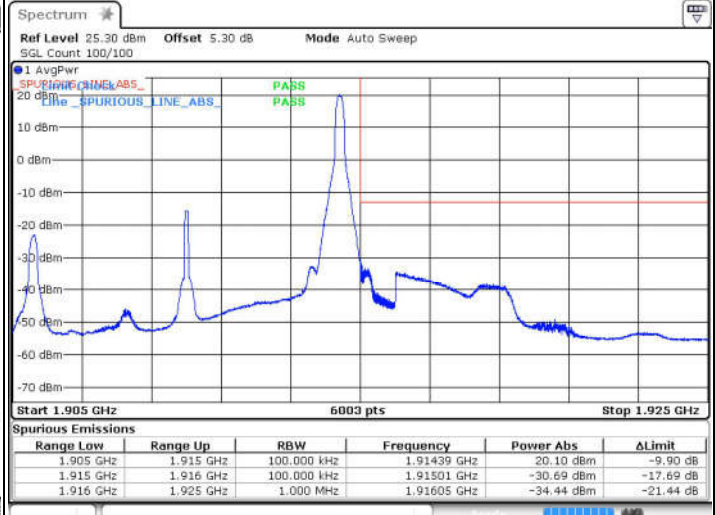
LTE Band 25 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



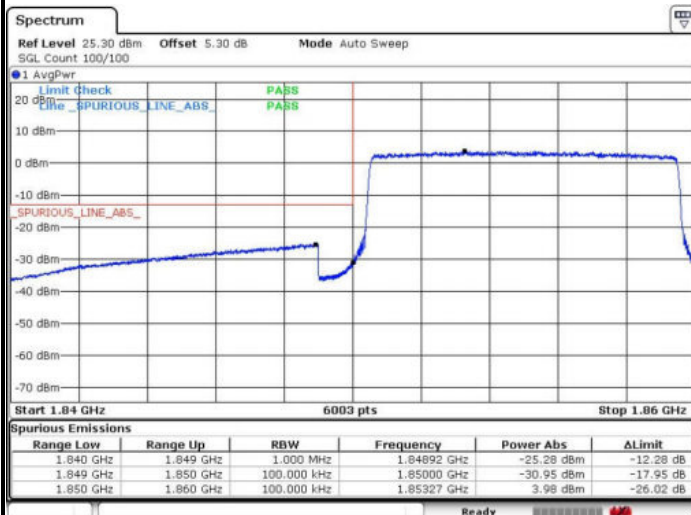
Date: 6 JAN 2017 13:16:14

Highest Band Edge / 1 RB



Date: 3 JAN 2017 14:14:24

Lowest Band Edge / Full RB



Date: 6 JAN 2017 13:14:16

Highest Band Edge / Full RB

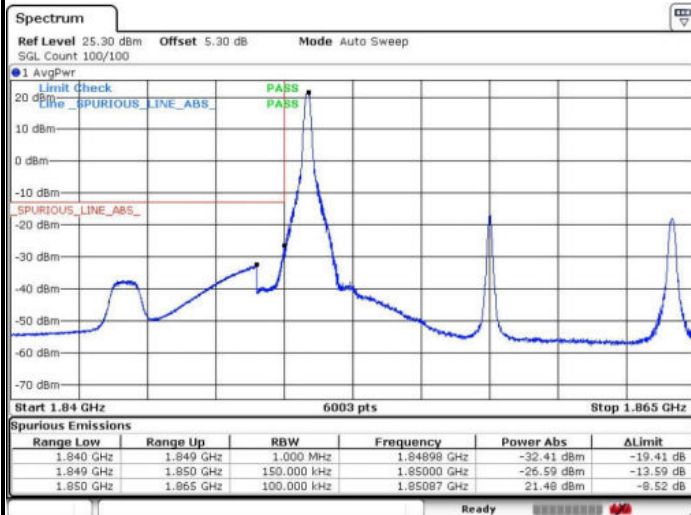


Date: 3 JAN 2017 10:44:33



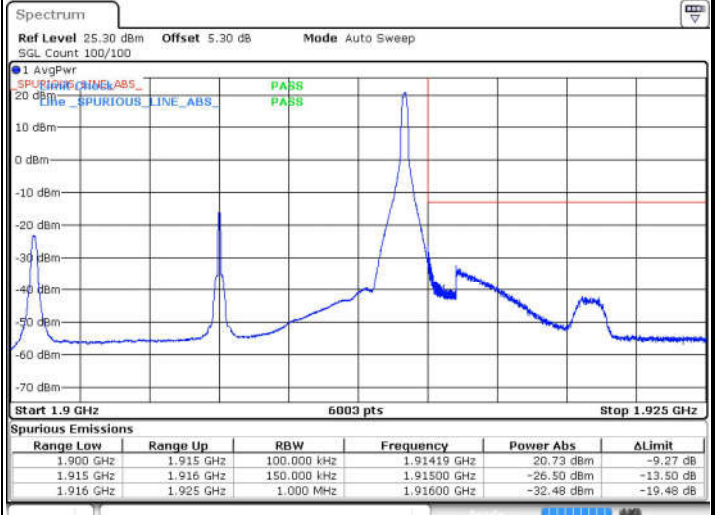
LTE Band 25 / 15MHz / QPSK

Lowest Band Edge / 1 RB



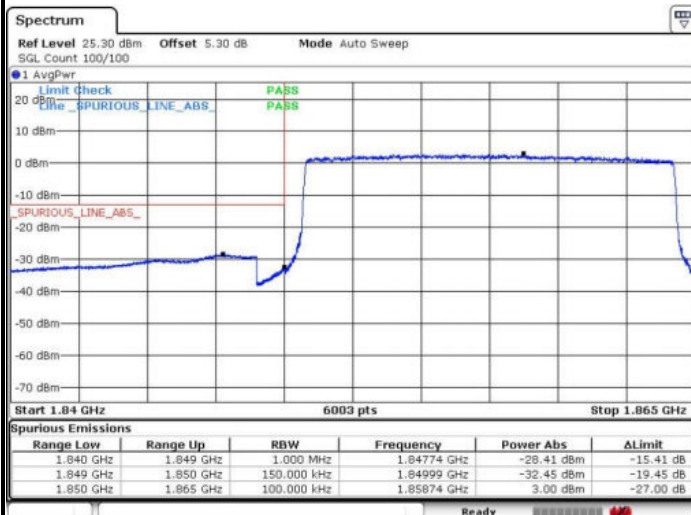
Date: 6 JAN 2017 13:20:05

Highest Band Edge / 1 RB



Date: 3 JAN 2017 10:54:01

Lowest Band Edge / Full RB



Date: 6 JAN 2017 13:19:19

Highest Band Edge / Full RB

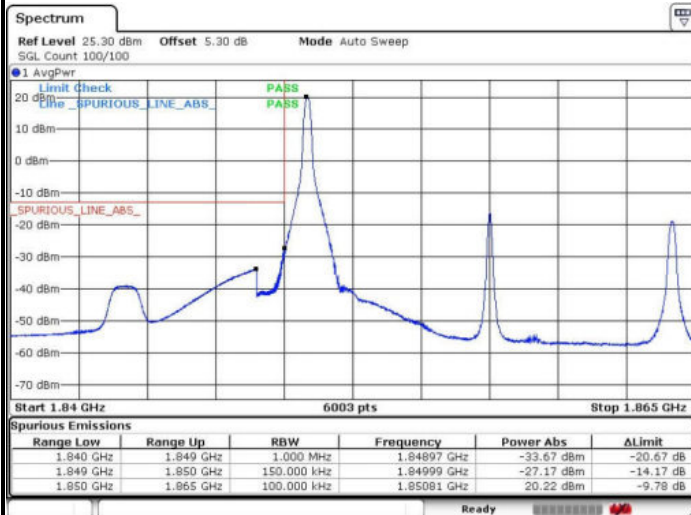


Date: 3 JAN 2017 10:50:35



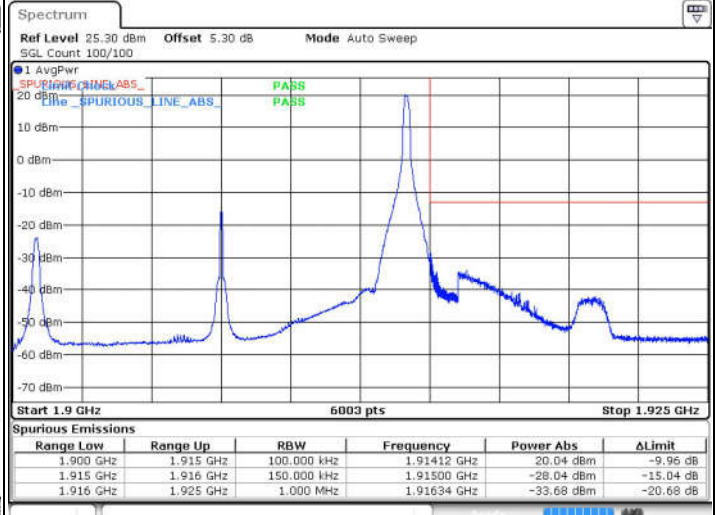
LTE Band 25 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



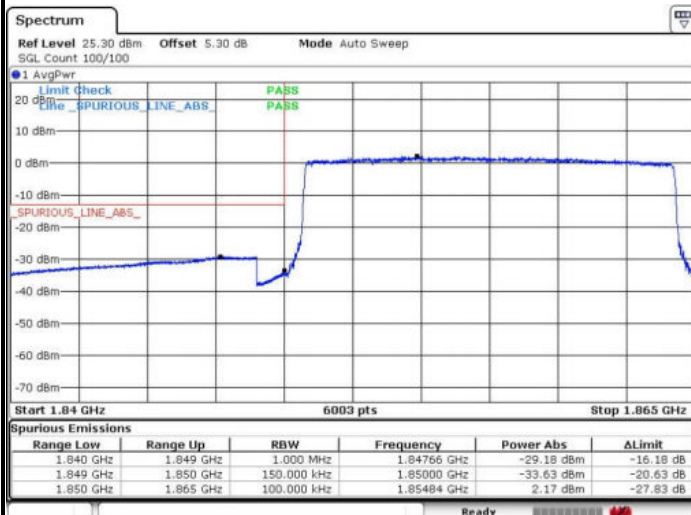
Date: 6 JAN 2017 13:41:48

Highest Band Edge / 1 RB



Date: 3 JAN 2017 10:52:52

Lowest Band Edge / Full RB



Date: 6 JAN 2017 13:18:26

Highest Band Edge / Full RB

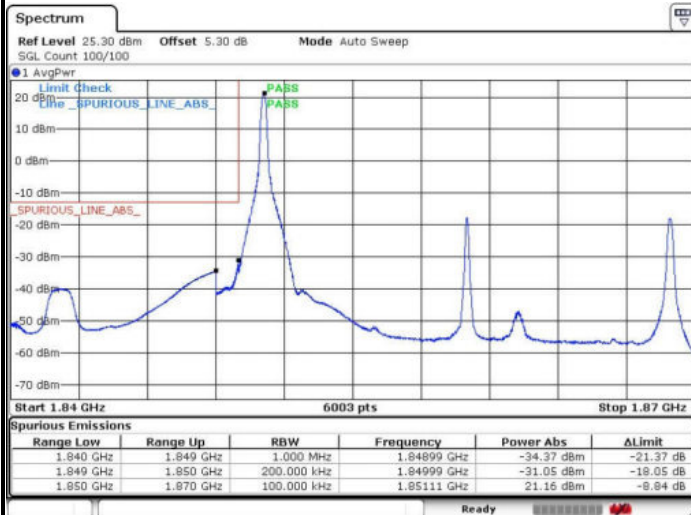


Date: 3 JAN 2017 10:51:44



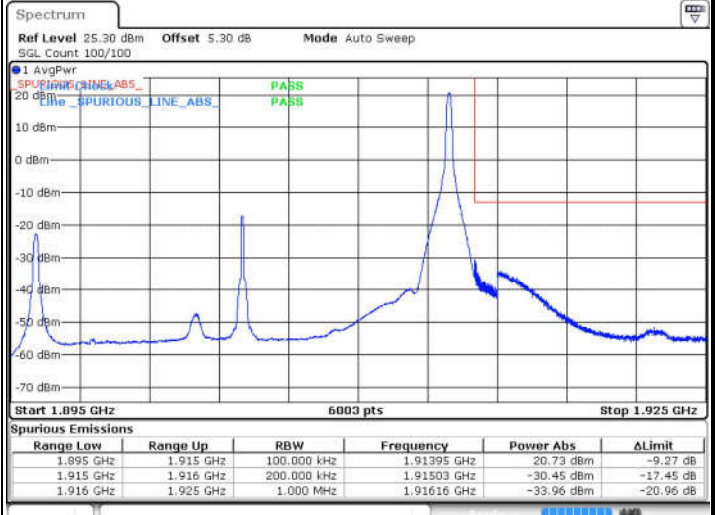
LTE Band 25 / 20MHz / QPSK

Lowest Band Edge / 1 RB



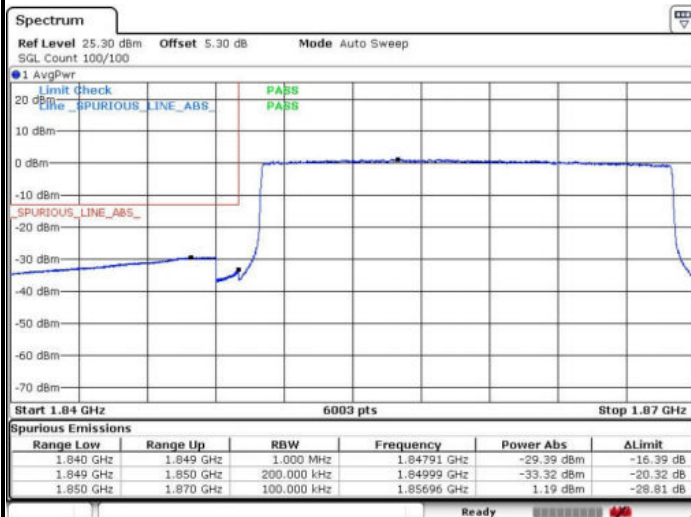
Date: 6 JAN 2017 13:46:51

Highest Band Edge / 1 RB



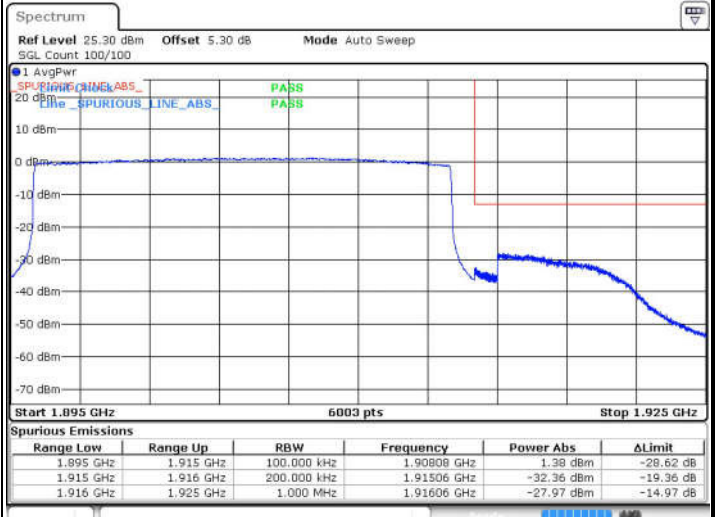
Date: 3 JAN 2017 11:01:12

Lowest Band Edge / Full RB



Date: 6 JAN 2017 13:45:42

Highest Band Edge / Full RB

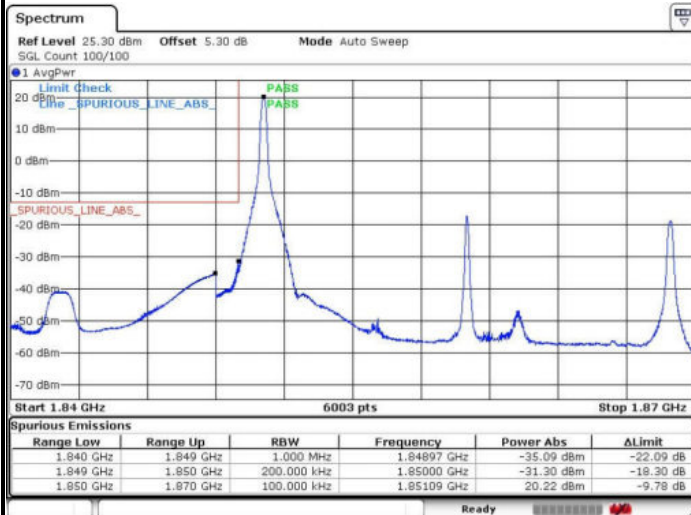


Date: 3 JAN 2017 10:57:46



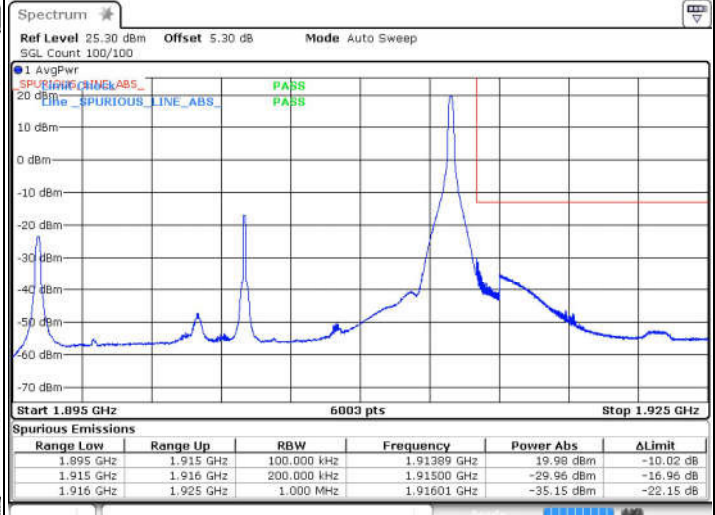
LTE Band 25 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



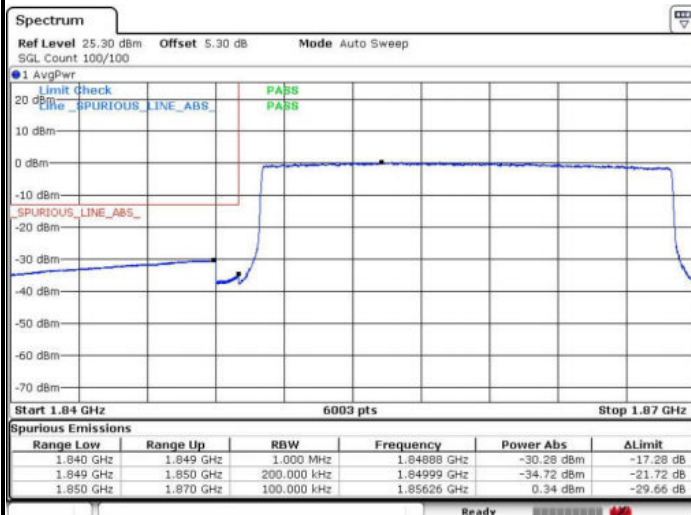
Date: 6 JAN 2017 13:48:01

Highest Band Edge / 1 RB



Date: 3 JAN 2017 11:22:27

Lowest Band Edge / Full RB



Date: 6 JAN 2017 13:44:36

Highest Band Edge / Full RB



Date: 3 JAN 2017 10:58:54