FCC RF Test Report

APPLICANT	:	TCL Communication Ltd.
EQUIPMENT	:	Tablet PC
BRAND NAME	:	ALCATEL ONETOUCH
MODEL NAME	:	9007T
MARKETING NAME	:	ONETOUCH PIXI 3 (7)
FCC ID	:	2ACCJB010
STANDARD	:	47 CFR Part 2, 22(H), 24(E), 27(M)
CLASSIFICATION	:	PCS Licensed Transmitter (PCB)

The product was received on Apr. 24, 2015 and completely tested on Aug. 13, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) 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 (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory 2353

SPORTON INTERNATIONAL (SHENZHEN) INC.

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APPENDIX A. TEST RESULTS OF CONDUCTED TEST
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG542408	Rev. 01	Initial issue of report	Aug. 04, 2015
FG542408	Rev. 02	Added the test result of CSE, OBW, conducted power and ERP for Ch26765 (821.5MHz).	Aug. 13, 2015

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049 §22.917(b) §24.238(b) §27.53(m)(6)	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a)	Conducted Band Edge Measurement (Band 25) (Band 26)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Band Edge Measurement (Band 41)	< 5MHz: -10 dBm 5 MHz~6MHz or 26dB(BW): -13 dBm ≥6MHz or 26dB(BW): -25 dBm	PASS	-

3.8	§2.1051 §22.917(a) §24.238(a)	Conducted Spurious Emission (Band 25) (Band 26)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 41)	< 55+10log$_{10}$(P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§22.913(a)(2)	Effective Radiated Power (Band 26)	ERP < 7 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 25) (Band 41)	EIRP < 2 Watt		
4.5	§2.1053 §22.917(a) §24.238(a)	Radiated Spurious Emission (Band 25) (Band 26)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 9.88 dB at 5177.180 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 41)	< 55+10log$_{10}$(P[Watts])		

1 General Description

1.1. Applicant

TCL Communication Ltd.

5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P. R. China. 201203

1.2. Manufacturer

TCL Communication Ltd.

5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P. R. China. 201203

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet PC
Brand Name	ALCATEL ONETOUCH
Model Name	9007T
FCC ID	2ACCJB010
Marketing Name	ONETOUCH PIXI 3 (7)
EUT supports Radios application	LTE/WLAN 2.4GHz 802.11b/g/n HT20/ Bluetooth v3.0 + EDR/Bluetooth v4.1 LE
HW Version	V05
SW Version	A2J
EUT Stage	Production Unit

1.4. Product Specification subjective to this standard

Product Specification subjective to this standard	
Tx Frequency	LTE Band 25 : 1850.7MHz ~ 1914.3 MHz LTE Band 26 : 824.7 MHz ~ 848.3 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz
Rx Frequency	LTE Band 25 : 1930.7MHz ~ 1994.3 MHz LTE Band 26: 869.7 MHz ~ 893.3 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz
Bandwidth	LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 25 : 23.36 dBm LTE Band 26 : 22.96 dBm LTE Band 41 : 22.94 dBm
Antenna Type	PIFA Antenna
Type of Modulation	QPSK / 16QAM

1.5. Modification of EUT

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

1.6. Accessories and Support Equipment

Specification of Accessory				
AC Adapter	**Brand Name**	ALCATELONETOUCH	**Model Name**	UC13US
	Power Rating	I/P: 100-240Vac, 0.5A, O/P: 5Vdc, 2A		
	P/N	CBA0059AG1C1		
Battery	**Brand Name**	ALCATEL ONETOUCH	**Model Name**	TLp040D2
	Power Rating	3.8V 4000mAh		
	P/N	C4000000C2Y2Z77K		
USB Cable	**Brand Name**	NA	**Model Name**	NA
	Signal Line Type	1.0meter, shielded cable, without ferrite core		

1.7. Maximum Emission Designator, Frequency Tolerance, and ERP/EIRP Power

LTE Band 25	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	-	0.1526	1M10W7D	-	0.1259
3	2M73G7D	-	0.1581	2M73W7D	-	0.1259
5	4M50G7D	-	0.1525	4M50W7D	-	0.1385
10	9M07G7D	0.0011	0.1124	9M03W7D	-	0.1147
15	13M5G7D	-	0.1381	13M5W7D	-	0.1185
20	18M5G7D	-	0.1364	18M5W7D	-	0.0703
LTE Band 26	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	1M10G7D	-	0.0630	1M10W7D	-	0.0474
3	2M73G7D	-	0.0609	2M73W7D	-	0.0436
5	4M51G7D	-	0.0615	4M50W7D	-	0.0467
10	9M01G7D	0.0096	0.0600	8M99W7D	-	0.0445
15	13M6G7D	-	0.0569	13M5W7D	-	0.0451
15 (ch 26765)	13M4G7D	-	0.0514	13M4W7D	-	0.0435
LTE Band 41	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	-	0.3451	4M52W7D	-	0.3515
10	9M07G7D	0.0019	0.3373	9M05W7D	-	0.3350
15	13M6G7D	-	0.3564	13M5W7D	-	0.3122
20	18M5G7D	-	0.3417	18M5W7D	-	0.3468

1.8. Testing Location

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

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

Note: The test site complies with ANSI C63.4 2009 requirement.

1.9. 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(M)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

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.

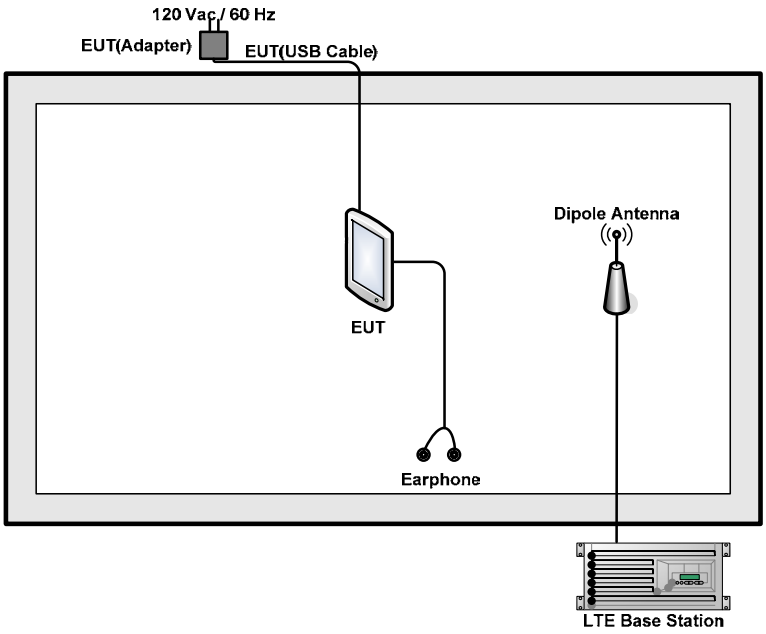
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

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	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	25						v	v	v	v		v	v	v	v
	26					v	-	v	v	v		v	v	v	v
	41	-	-				v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	25	v	v	v	v	v	v	v	v			v	v	v	v
	26	v	v	v	v	v	-	v	v			v	v	v	v
	41	-	-	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	25	v	v	v	v	v	v	v	v	v		v	v		v
	26	v	v	v	v	v	-	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v		v	v		v

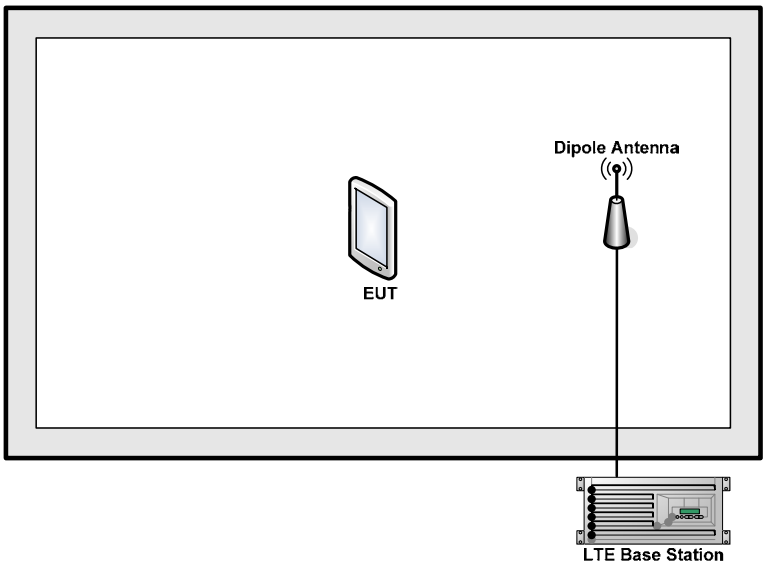
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	25	v	v	v	v	v	v	v	v	v	v		v	v	v
	26	v	v	v	v	v	-	v	v	v	v		v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v
Frequency Stability	25				v			v				v		v	
	26				v		-	v				v		v	
	41	-	-		v			v				v		v	
E.R.P./ E.I.R.P.	25	v	v	v	v	v	v	v	v	v	v		v	v	v
	26	v	v	v	v	v	-	v	v	v	v		v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	25	v	v	v	v	v	v	v		v				v	
	26	v	v	v	v	v	-	v		v				v	
	41	-	-	v	v	v	v	v		v				v	
Note	1. The mark "v " 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

For Part 22H



For Part 24E/27M



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	Lenovo	SH100	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between 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 4.5 dB and 10dB attenuator.

Example :

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

= 4.5 + 10 = 14.5 (dB)

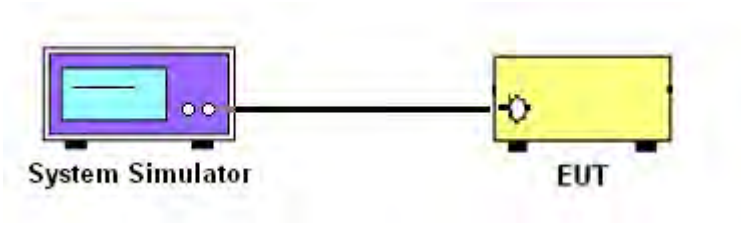
3 Conducted Test Items

3.1 Measuring Instruments

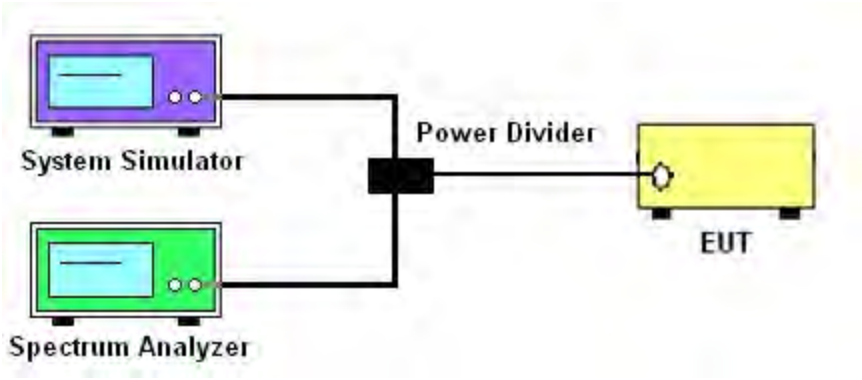
See list of measuring instruments of this test report.

3.2 Test Setup

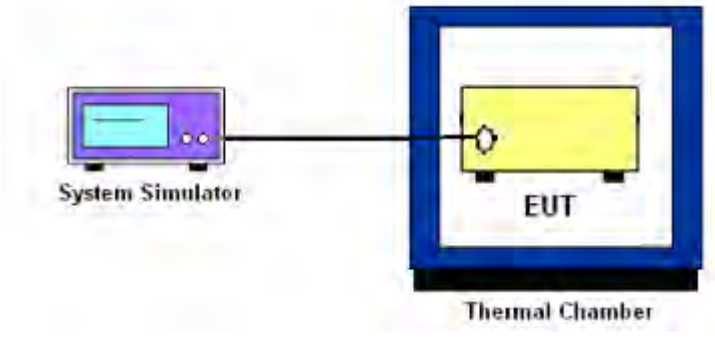
3.2.1 Conducted Output Power



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 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

The 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) for Band 26

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) for Band 25

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(m)(4) for Band 41:

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.
   <For Band 41>
7. The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [55 + 10log(P)] (dB)
   =[30 + 10log(P)] (dBm) - [55 + 10log(P)] (dB)
   =-25dBm.

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 41:

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. Offset has included the duty factor . Duty factor =10 log (1/x), where x is the measured duty cycle.
9. 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 41

   The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

   = P(W)- [55 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [55 + 10log(P)] (dB)

   = -25dBm

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.

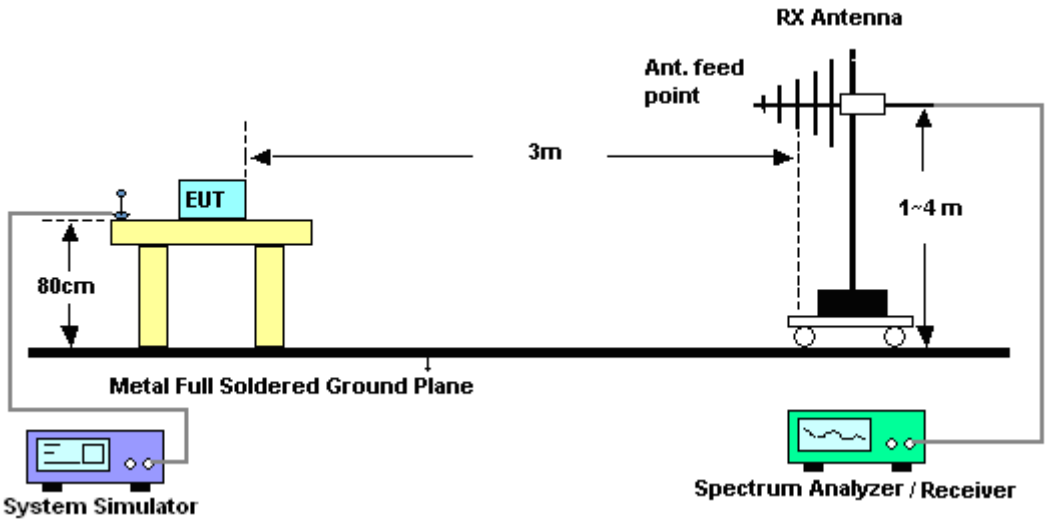
4 Radiated Test Items

4.1 Measuring Instruments

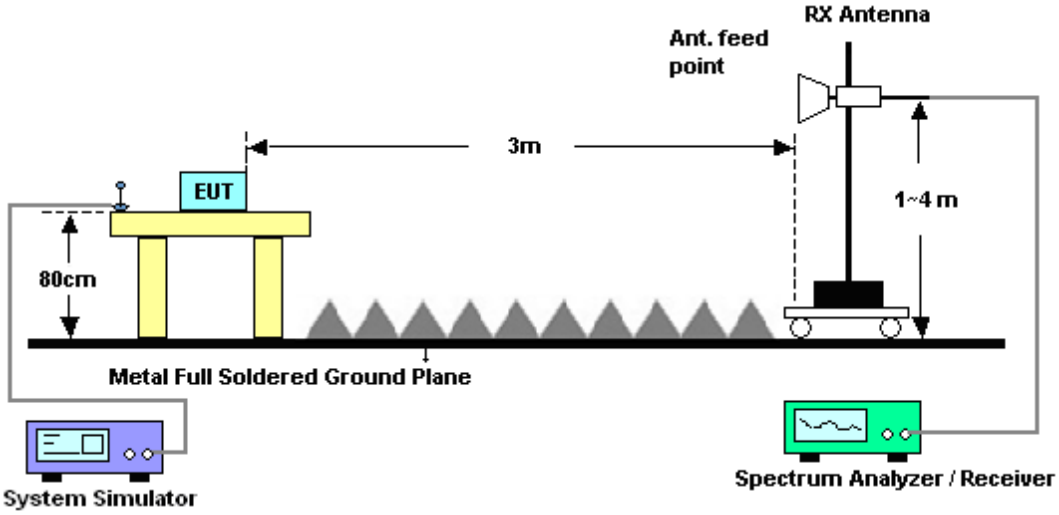
See list of measuring instruments of this test report.

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 26.

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 25 /41.

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.
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

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 41

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.

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 41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [55 + 10log(P)] (dB)
    = -25dBm
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
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	May 04, 2015	Apr. 29, 2015~ Aug. 13, 2015	May 03, 2016	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	May 05, 2014	Apr. 29, 2015~ Aug. 13, 2015	May 04, 2015	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Sep. 16, 2014	Apr. 29, 2015~ Aug. 13, 2015	Sep. 15, 2015	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	May 10, 2015	May 25, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz;Max 30dBm	Sep. 25, 2014	May 10, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	May 10, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	May 10, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Sep. 04, 2014	May 10, 2015	Sep. 03, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	May 10, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 05, 2015	May 10, 2015	May 04, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 28, 2015	May 10, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	May 10, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 10, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 10, 2015	NCR	Radiation (03CH01-SZ)

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))	2.3dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9dB

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
1.4	1	0	QPSK	22.85	22.97	22.73
1.4	1	2		22.93	23.12	22.69
1.4	1	5		22.82	22.89	22.63
1.4	3	0		22.86	23.15	22.68
1.4	3	1		22.87	23.16	22.72
1.4	3	2		22.84	23.11	22.65
1.4	6	0		21.86	22.19	21.59
1.4	1	0	16-QAM	21.52	22.16	22.07
1.4	1	2		21.56	22.09	22.35
1.4	1	5		22.06	21.85	22.30
1.4	3	0		21.81	22.28	21.78
1.4	3	1		22.04	22.38	21.94
1.4	3	2		21.83	22.31	21.96
1.4	6	0		20.65	20.98	20.73
3	1	0	QPSK	22.78	22.93	22.69
3	1	7		22.72	22.82	22.67
3	1	14		22.76	22.92	22.58
3	8	0		21.87	22.09	21.90
3	8	4		21.99	22.11	21.84
3	8	7		21.93	22.09	21.87
3	15	0		21.83	22.07	21.77
3	1	0	16-QAM	22.14	22.26	22.06
3	1	7		22.11	22.16	21.85
3	1	14		22.26	22.10	21.75
3	8	0		20.63	20.89	20.62
3	8	4		20.74	20.78	20.68
3	8	7		20.85	20.92	20.53
3	15	0		20.83	20.66	20.65

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.74	23.04	22.63
5	1	12		22.75	22.88	22.77
5	1	24		22.65	22.97	22.71
5	12	0		21.93	22.07	21.75
5	12	6		21.81	22.10	21.64
5	12	11		21.90	22.03	21.69
5	25	0		21.92	22.03	21.70
5	1	0	16-QAM	22.25	22.59	22.09
5	1	12		22.01	22.42	22.41
5	1	24		22.34	22.28	21.87
5	12	0		20.93	21.10	20.63
5	12	6		20.84	21.04	20.64
5	12	11		20.66	20.98	20.88
5	25	0		20.84	21.15	20.80
10	1	0	QPSK	22.97	23.02	22.87
10	1	24		22.90	23.21	22.84
10	1	49		22.88	22.94	22.80
10	25	0		21.88	22.19	21.82
10	25	12		21.88	22.22	21.75
10	25	24		21.88	22.01	21.84
10	50	0		21.88	22.21	21.79
10	1	0	16-QAM	22.43	22.11	22.41
10	1	24		22.46	22.24	22.32
10	1	49		22.24	22.17	22.39
10	25	0		20.92	21.19	20.88
10	25	12		20.78	20.99	20.71
10	25	24		20.81	20.91	20.78
10	50	0		20.71	21.22	20.78

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.06	23.24	22.81
15	1	37		23.05	22.97	22.89
15	1	74		22.95	22.99	22.73
15	36	0		21.90	22.10	21.80
15	36	18		21.91	22.13	21.80
15	36	37		21.95	22.10	21.74
15	75	0		21.83	22.12	21.78
15	1	0	16-QAM	21.85	22.05	22.18
15	1	37		22.05	21.88	22.22
15	1	74		21.99	22.07	22.13
15	36	0		20.74	21.01	20.77
15	36	18		20.76	20.87	20.75
15	36	37		20.86	20.87	20.72
15	75	0		20.82	21.05	20.68
20	1	0	QPSK	23.11	23.27	23.00
20	1	49		22.92	23.36	22.87
20	1	99		22.64	23.08	22.85
20	50	0		22.15	22.22	21.94
20	50	24		21.92	22.20	21.81
20	50	49		21.93	22.02	21.88
20	100	0		22.05	22.16	21.85
20	1	0	16-QAM	22.45	22.91	22.39
20	1	49		22.41	22.59	22.48
20	1	99		22.20	22.22	21.97
20	50	0		20.85	21.30	20.64
20	50	24		20.77	21.23	20.83
20	50	49		20.85	21.08	20.83
20	100	0		20.93	21.12	20.85

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.31	22.71	22.36
1.4	1	2		22.28	22.62	22.27
1.4	1	5		22.15	22.71	22.23
1.4	3	0		22.30	22.91	22.37
1.4	3	1		22.52	22.88	22.53
1.4	3	2		22.43	22.84	22.48
1.4	6	0		21.42	21.75	21.58
1.4	1	0	16-QAM	21.60	22.04	21.63
1.4	1	2		21.56	21.96	21.58
1.4	1	5		21.64	21.59	21.50
1.4	3	0		21.50	21.82	21.61
1.4	3	1		21.59	21.89	21.59
1.4	3	2		21.75	21.83	21.73
1.4	6	0		20.35	20.78	20.26
3	1	0	QPSK	22.24	22.83	22.42
3	1	7		22.56	22.73	22.52
3	1	14		22.45	22.53	22.40
3	8	0		21.39	21.67	21.50
3	8	4		21.29	21.72	21.48
3	8	7		21.53	21.67	21.42
3	15	0		21.30	21.72	21.46
3	1	0	16-QAM	21.98	22.42	22.11
3	1	7		21.97	22.09	21.44
3	1	14		21.91	21.68	21.79
3	8	0		20.38	20.71	20.68
3	8	4		20.54	20.74	20.51
3	8	7		20.64	20.81	20.42
3	15	0		20.34	20.40	20.23

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.14	22.75	22.44
5	1	12		22.62	22.90	22.66
5	1	24		22.52	22.49	22.17
5	12	0		21.40	21.79	21.51
5	12	6		21.46	21.70	21.49
5	12	11		21.44	21.69	21.41
5	25	0		21.42	21.74	21.43
5	1	0	16-QAM	21.97	22.30	22.02
5	1	12		21.99	22.13	22.01
5	1	24		22.30	21.96	21.78
5	12	0		20.48	20.84	20.49
5	12	6		20.38	20.73	20.45
5	12	11		20.39	20.72	20.35
5	25	0		20.49	20.72	20.45
10	1	0	QPSK	22.44	22.84	22.66
10	1	24		22.96	22.62	22.60
10	1	49		22.74	22.50	22.27
10	25	0		21.53	21.80	21.69
10	25	12		21.68	21.67	21.59
10	25	24		21.69	21.72	21.57
10	50	0		21.70	21.76	21.56
10	1	0	16-QAM	21.62	21.59	21.78
10	1	24		21.75	21.91	21.85
10	1	49		22.02	21.70	21.47
10	25	0		20.63	20.87	20.72
10	25	12		20.86	20.62	20.63
10	25	24		20.64	20.73	20.47
10	50	0		20.56	20.61	20.58

LTE Band 26 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Ch26765	Lowest	Middle	Highest
15	1	0	QPSK	22.40	22.35	22.82	22.78
15	1	37		22.13	22.61	22.55	22.49
15	1	74		21.96	22.52	22.39	22.34
15	36	0		21.33	21.60	21.78	21.84
15	36	18		21.15	21.68	21.72	21.57
15	36	37		21.22	21.68	21.74	21.53
15	75	0		21.21	21.58	21.70	21.68
15	1	0	16-QAM	21.33	21.68	22.15	22.18
15	1	37		20.89	22.10	21.78	21.53
15	1	74		20.77	21.85	21.49	21.03
15	36	0		20.22	20.73	20.68	20.65
15	36	18		20.08	21.03	20.71	20.45
15	36	37		20.28	20.64	20.61	20.65
15	75	0		20.03	20.67	20.72	20.61

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.59	22.24	22.36
5	1	12		22.58	22.43	22.39
5	1	24		22.60	22.27	22.24
5	12	0		22.62	22.29	22.24
5	12	6		22.61	22.34	22.45
5	12	11		22.56	22.33	22.46
5	25	0		22.51	22.38	22.47
5	1	0	16-QAM	22.66	22.48	22.40
5	1	12		22.64	22.34	22.37
5	1	24		22.73	22.34	22.31
5	12	0		22.57	22.13	22.13
5	12	6		22.51	22.12	22.45
5	12	11		22.46	22.12	22.30
5	25	0		22.54	22.19	22.41
10	1	0	QPSK	22.63	22.38	22.68
10	1	24		22.70	22.39	22.61
10	1	49		22.49	22.20	22.13
10	25	0		22.68	22.46	22.58
10	25	12		22.76	22.39	22.50
10	25	24		22.56	22.39	22.50
10	50	0		22.67	22.45	22.57
10	1	0	16-QAM	22.73	22.34	22.84
10	1	24		22.71	22.44	22.61
10	1	49		22.56	22.43	22.42
10	25	0		22.58	22.31	22.75
10	25	12		22.67	22.35	22.68
10	25	24		22.49	22.32	22.50
10	50	0		22.57	22.35	22.48

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.74	22.28	22.68
15	1	37		22.78	22.31	22.29
15	1	74		22.60	22.34	22.28
15	36	0		22.77	22.51	22.73
15	36	18		22.70	22.43	22.45
15	36	37		22.75	22.43	22.54
15	75	0		22.64	22.41	22.75
15	1	0	16-QAM	22.91	22.50	22.73
15	1	37		22.89	22.40	22.31
15	1	74		22.90	22.45	22.66
15	36	0		22.77	22.26	22.71
15	36	18		22.66	22.19	22.38
15	36	37		22.74	22.18	22.54
15	75	0		22.65	22.29	22.37
20	1	0	QPSK	22.94	22.55	22.90
20	1	49		22.88	22.47	22.45
20	1	99		22.78	22.44	22.31
20	50	0		22.90	22.50	22.87
20	50	24		22.87	22.42	22.79
20	50	49		22.81	22.40	22.67
20	100	0		22.87	22.48	22.85
20	1	0	16-QAM	22.92	22.41	22.80
20	1	49		22.93	22.47	22.52
20	1	99		22.87	22.39	22.69
20	50	0		22.65	22.51	22.87
20	50	24		22.78	22.48	22.64
20	50	49		22.84	22.30	22.56
20	100	0		22.82	22.40	22.52

Peak-to-Average Ratio

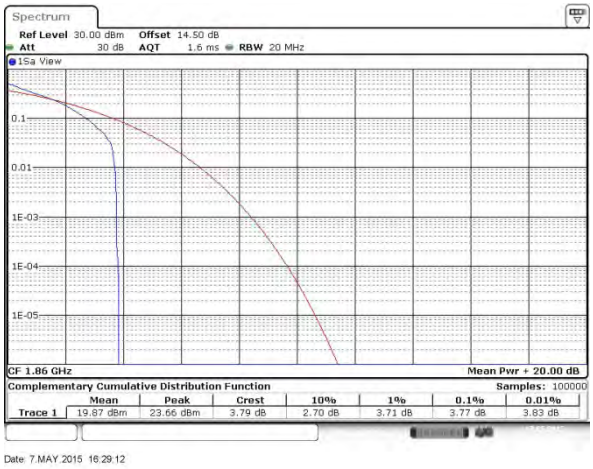
Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	3.77	4.75	4.72	5.77	PASS
Middle CH	4.26	4.87	5.04	5.86	
Highest CH	4.32	4.78	5.10	5.74	

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	4.12	4.93	4.67	5.74	PASS
Middle CH	4.03	4.93	4.75	5.74	
Highest CH	4.03	4.49	4.58	5.54	

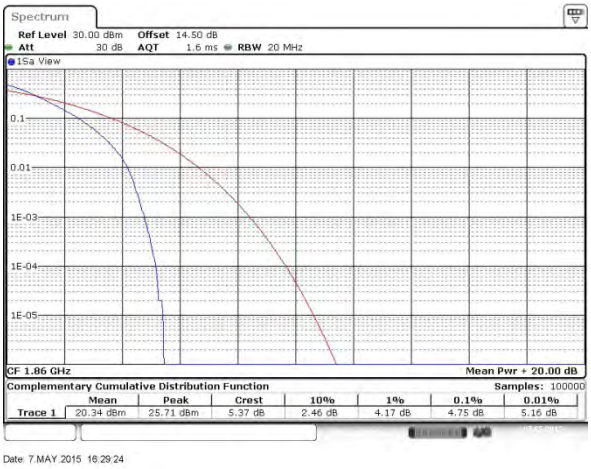
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	4.29	5.36	4.70	5.42	PASS
Middle CH	3.83	6.03	4.35	6.12	
Highest CH	5.25	5.22	6.87	4.96	

LTE Band 25 / 20MHz / QPSK

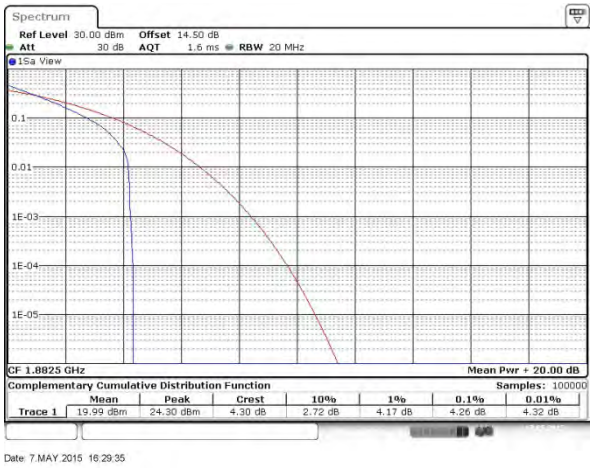
Lowest Channel / 1RB



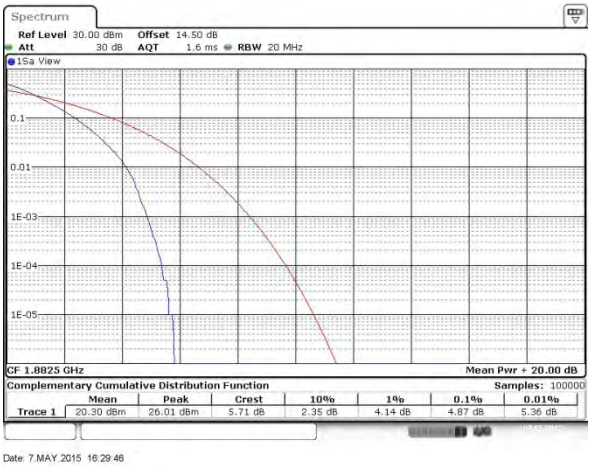
Lowest Channel / Full RB



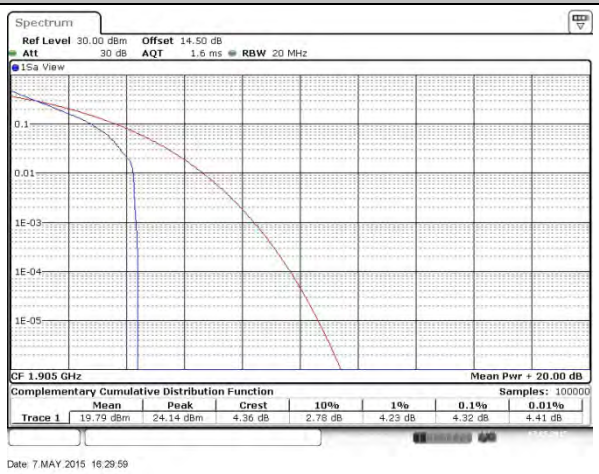
Middle Channel / 1RB



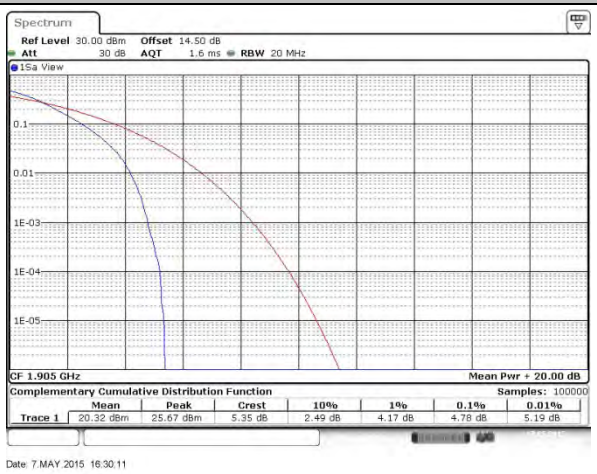
Middle Channel / Full RB



Highest Channel / 1RB

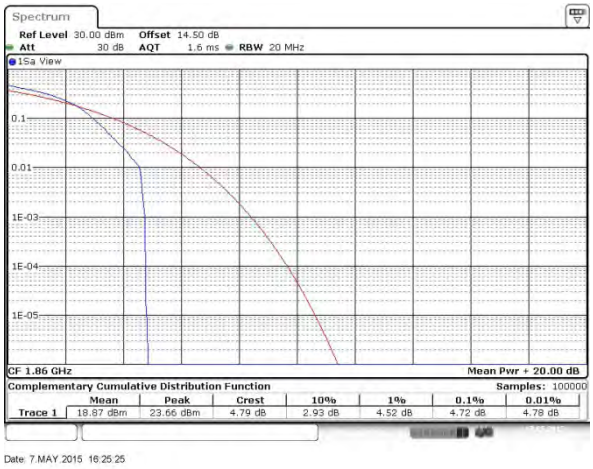


Highest Channel / Full RB

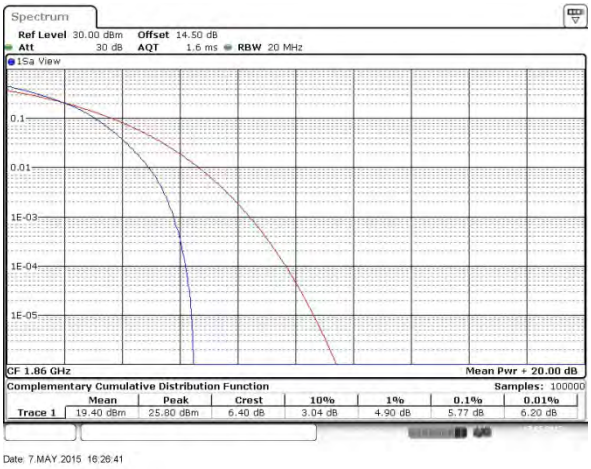


LTE Band 25 / 20MHz / 16QAM

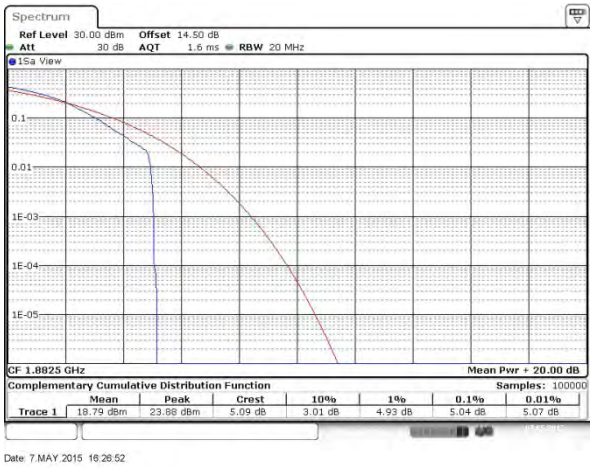
Lowest Channel / 1RB



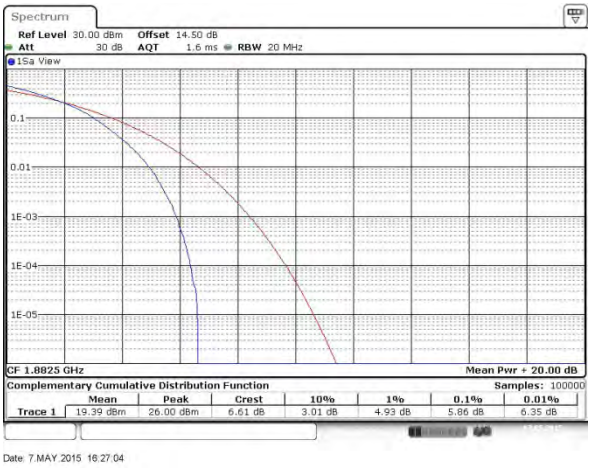
Lowest Channel / Full RB



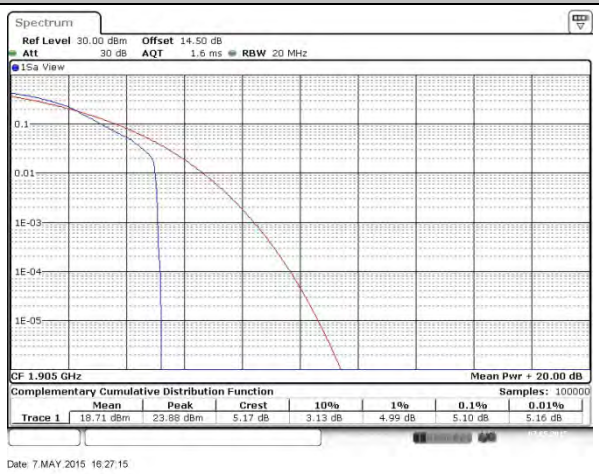
Middle Channel / 1RB



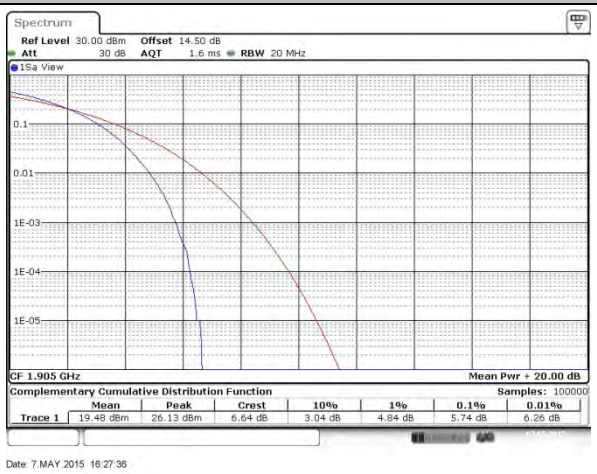
Middle Channel / Full RB



Highest Channel / 1RB

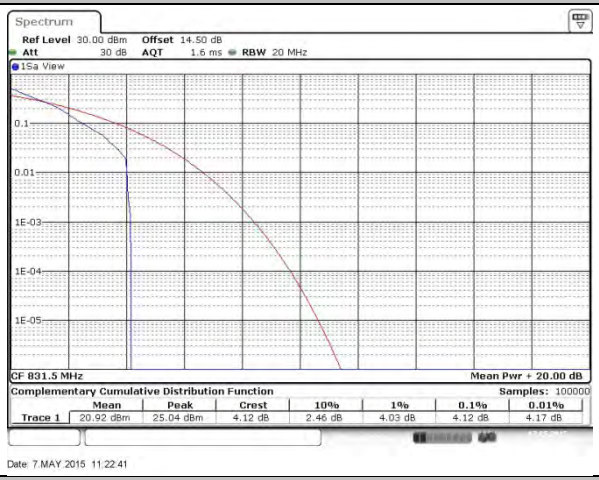


Highest Channel / Full RB

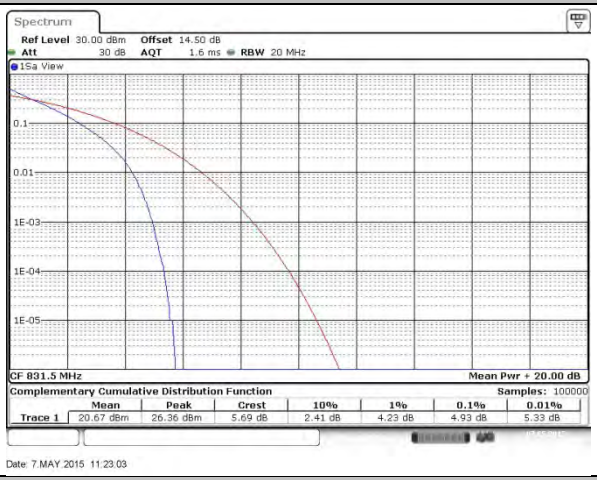


LTE Band 26 / 15MHz / QPSK

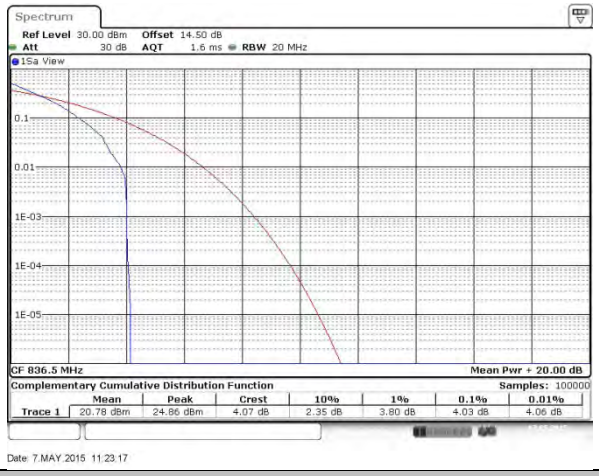
Lowest Channel / 1RB



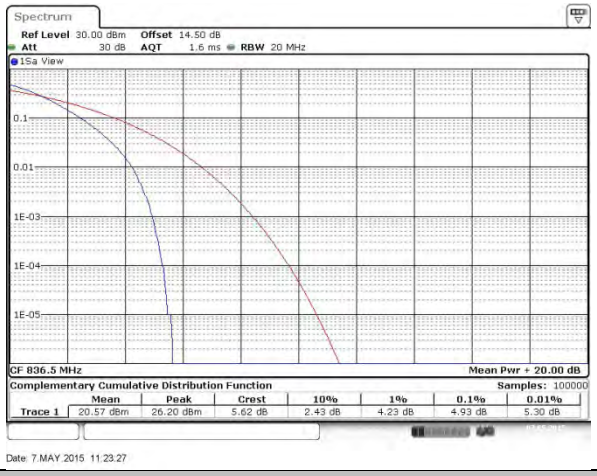
Lowest Channel / Full RB



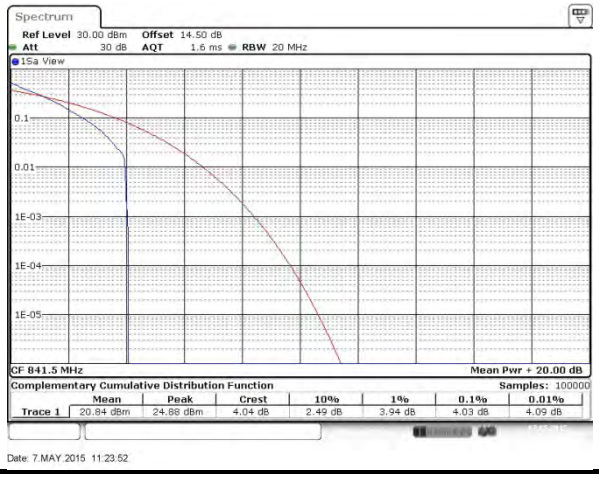
Middle Channel / 1RB



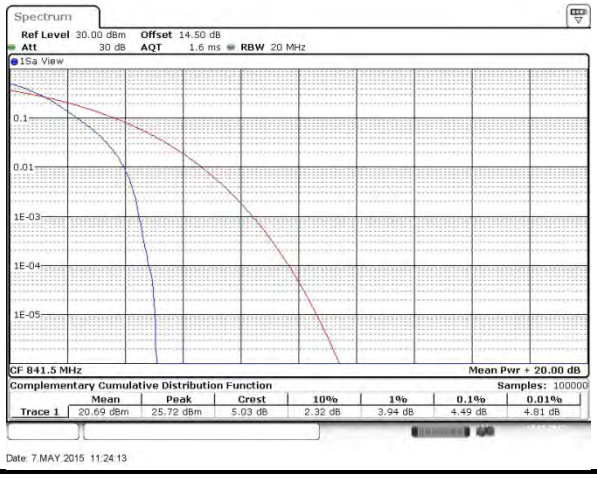
Middle Channel / Full RB



Highest Channel / 1RB

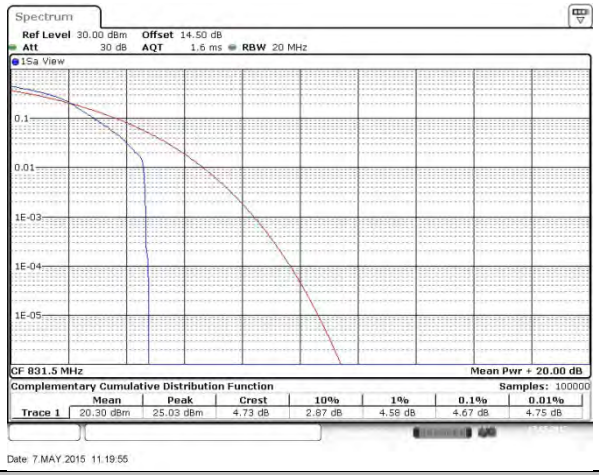


Highest Channel / Full RB

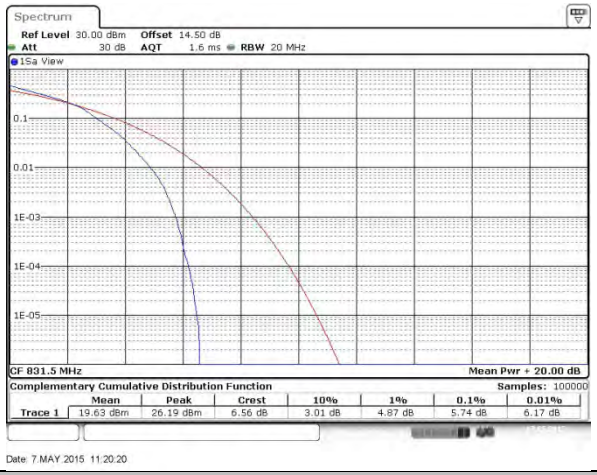


LTE Band 26 / 15MHz / 16QAM

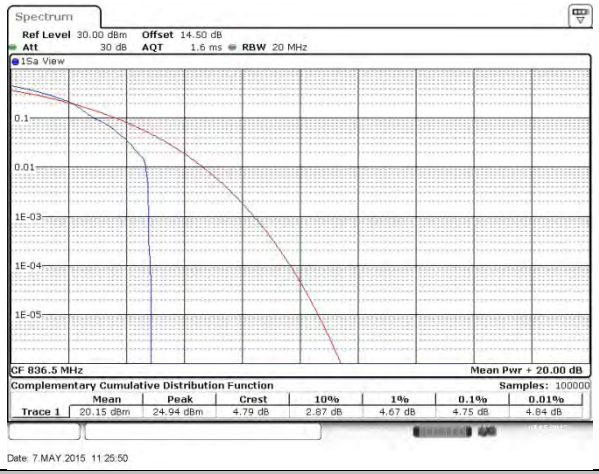
Lowest Channel / 1RB



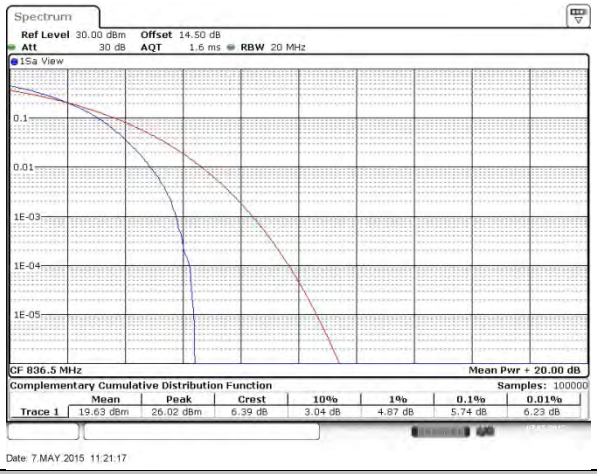
Lowest Channel / Full RB



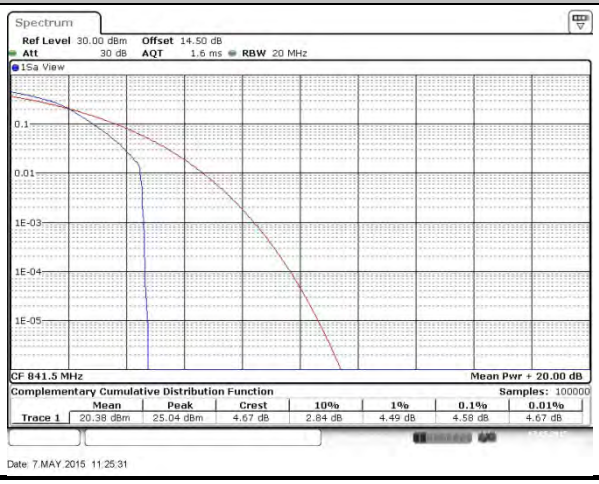
Middle Channel / 1RB



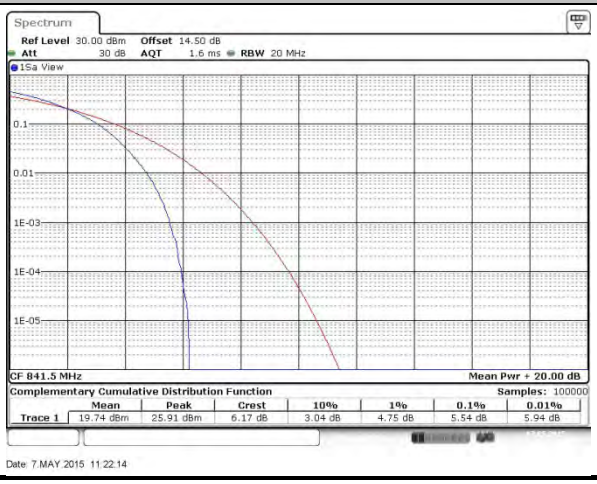
Middle Channel / Full RB



Highest Channel / 1RB

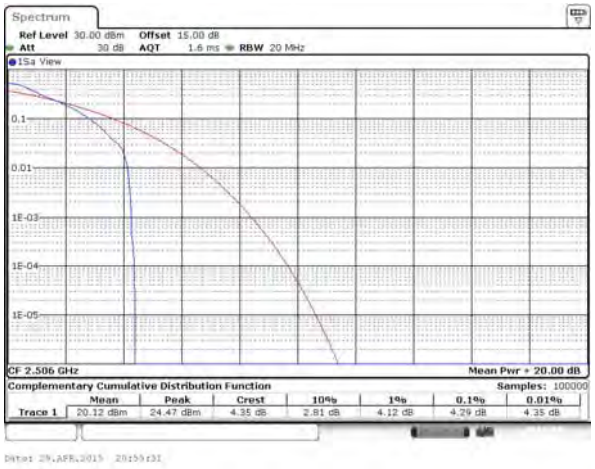


Highest Channel / Full RB

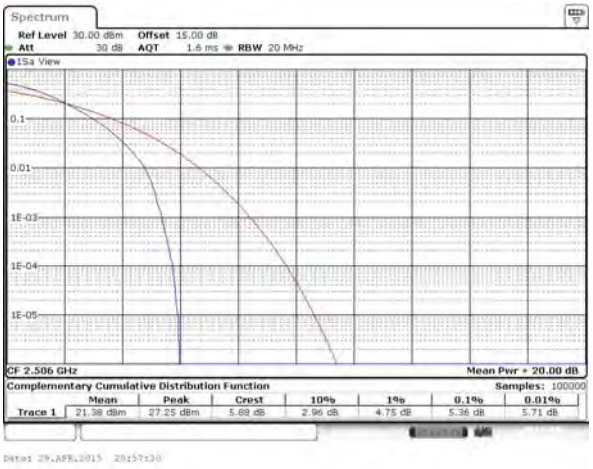


LTE Band 41 / 20MHz / QPSK

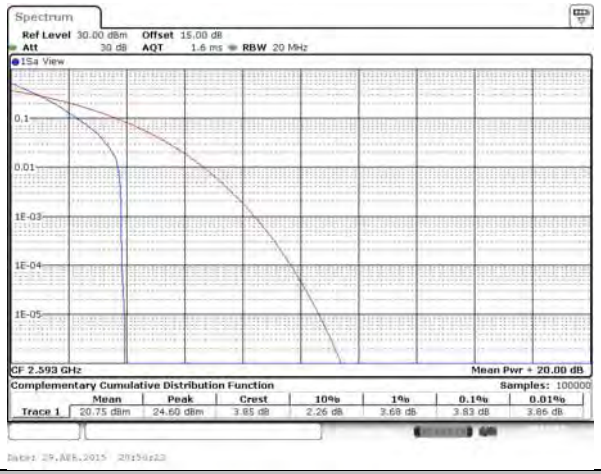
Lowest Channel / 1RB



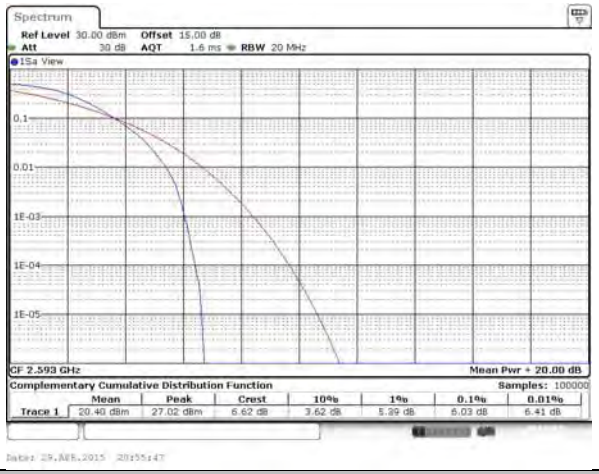
Lowest Channel / Full RB



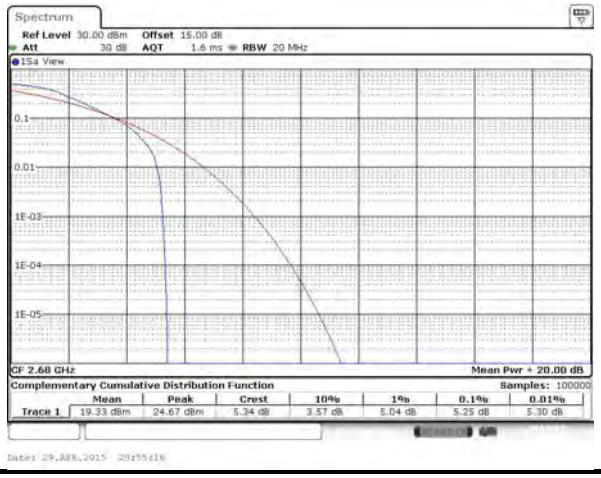
Middle Channel / 1RB



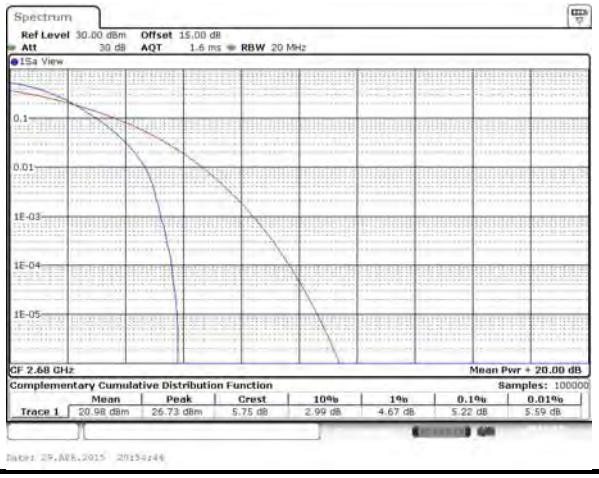
Middle Channel / Full RB



Highest Channel / 1RB

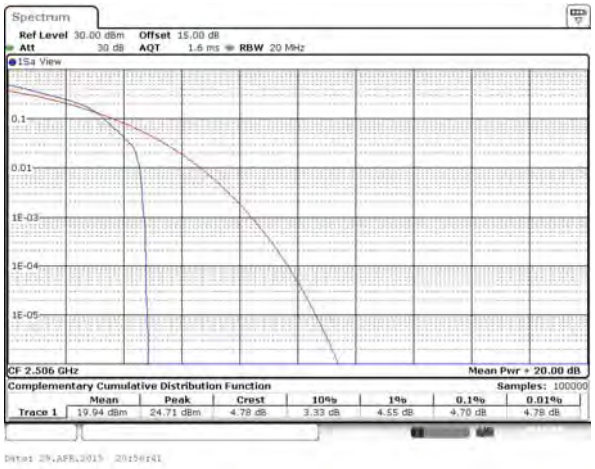


Highest Channel / Full RB

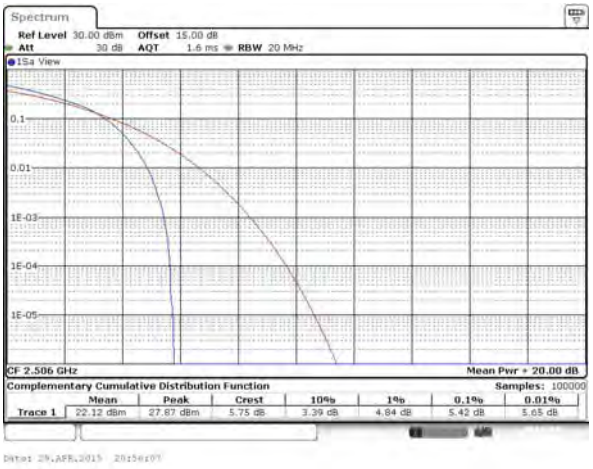


LTE Band 41 / 20MHz / 16QAM

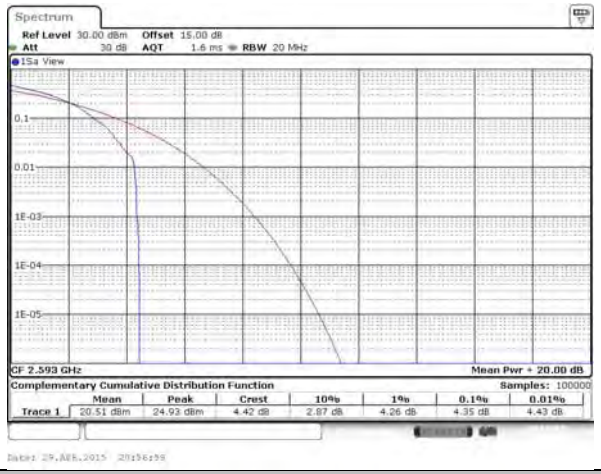
Lowest Channel / 1RB



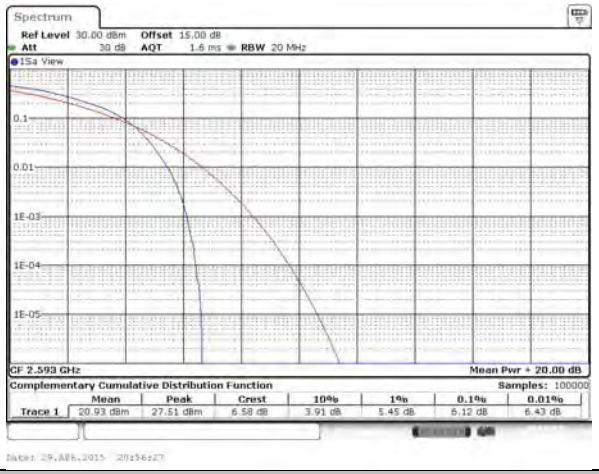
Lowest Channel / Full RB



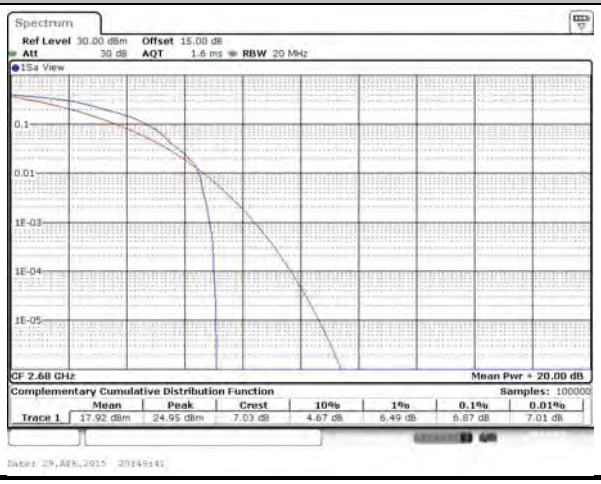
Middle Channel / 1RB



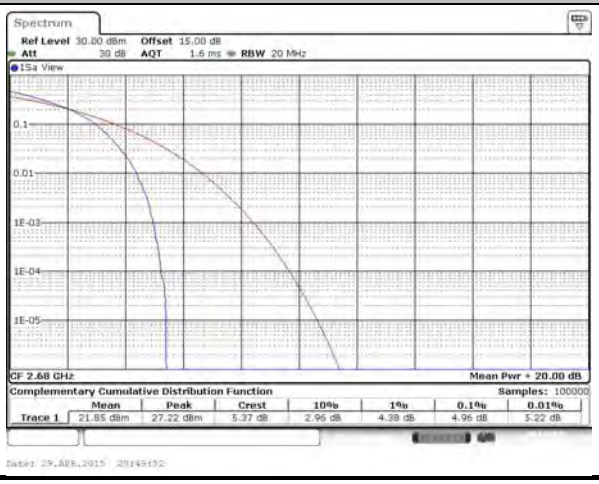
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



26dB Bandwidth

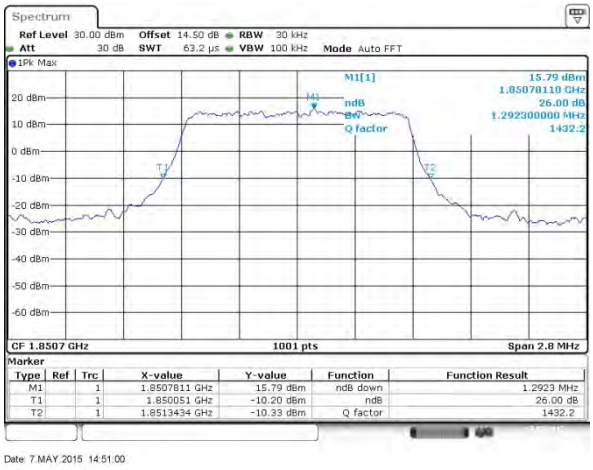
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.29	1.31	3.03	3.06	5.05	5.04	10.03	9.91	14.57	14.81	20.26	20.34
Middle CH	1.30	1.29	3.03	3.05	5.03	5.02	9.99	9.87	14.63	14.75	20.26	20.42
Highest CH	1.31	1.31	3.05	3.05	5.06	5.03	9.97	10.01	14.63	14.66	20.30	20.30

Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		Ch26765	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.30	3.06	3.06	5.04	5.05	10.03	10.03	14.78	14.90	14.57	14.66
Middle CH	1.28	1.31	3.04	3.05	5.04	5.04	9.97	9.95	14.57	14.54	-	-
Highest CH	1.28	1.31	3.05	3.06	5.04	5.05	9.99	9.99	14.57	14.63	-	-

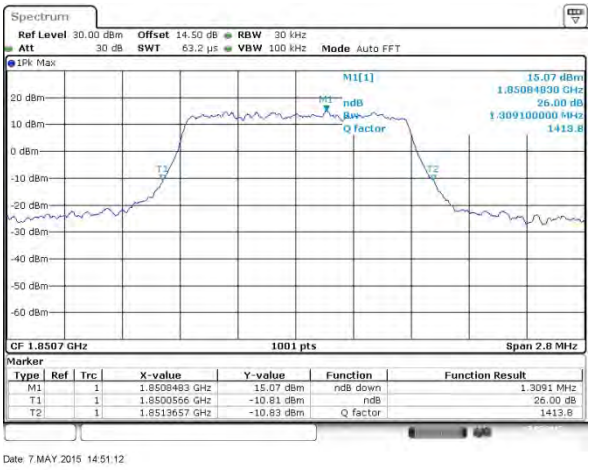
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.27	5.03	9.97	9.93	14.57	14.87	20.26	20.3
Middle CH	-	-	-	-	5.23	5.02	9.97	10.01	14.66	14.72	20.70	20.38
Highest CH	-	-	-	-	5.07	5.06	9.89	10.05	14.84	14.63	20.38	20.22

LTE Band 25

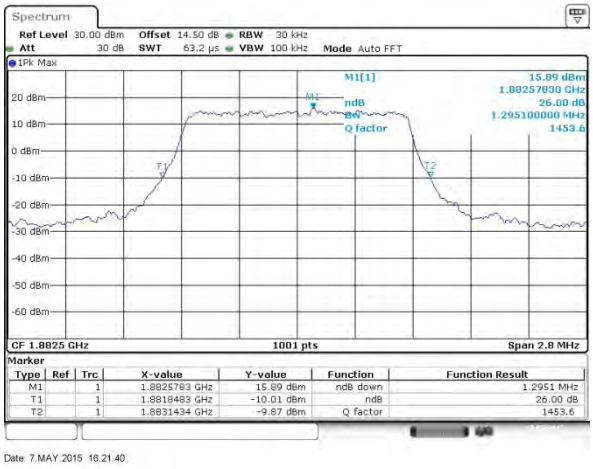
Lowest Channel / 1.4MHz / QPSK



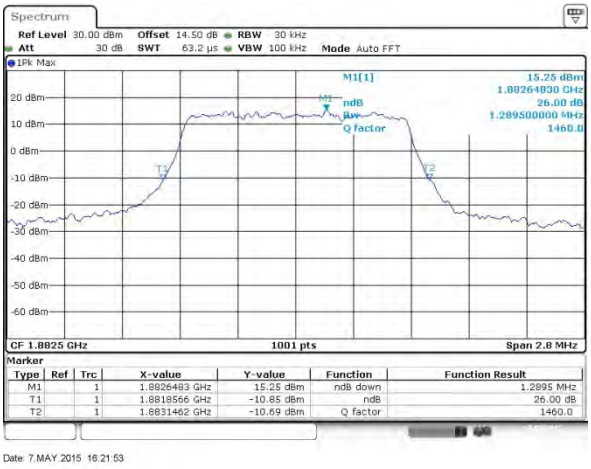
Lowest Channel / 1.4MHz / 16QAM



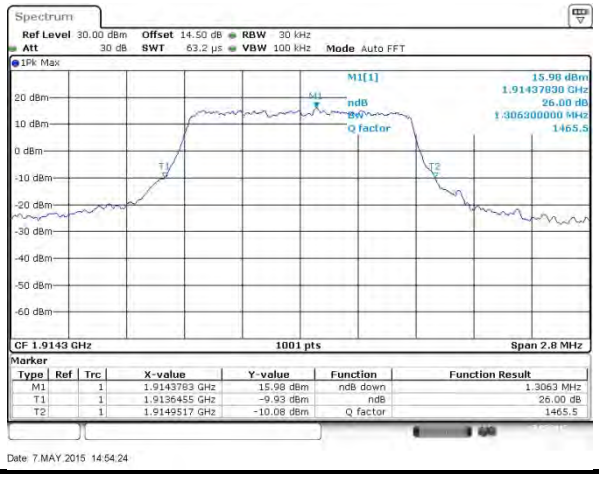
Middle Channel / 1.4MHz / QPSK



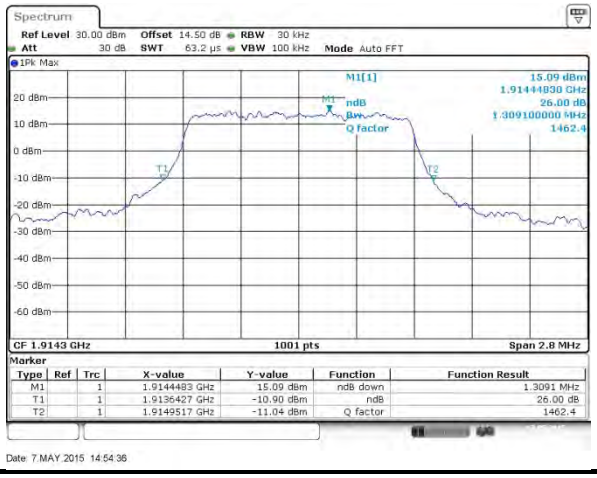
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

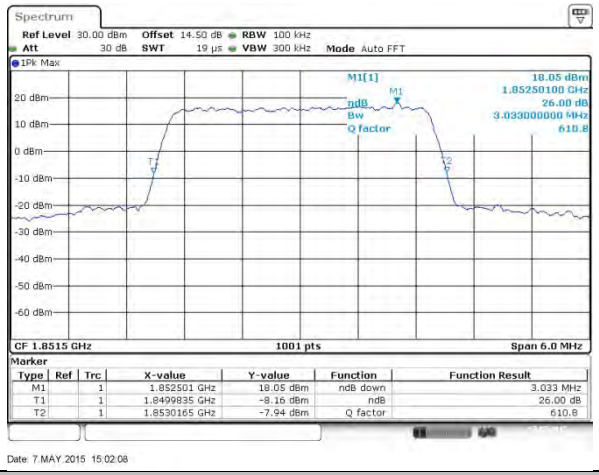


Highest Channel / 1.4MHz / 16QAM

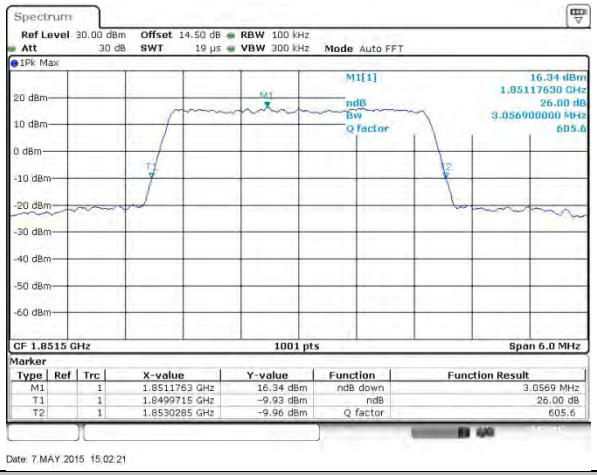


LTE Band 25

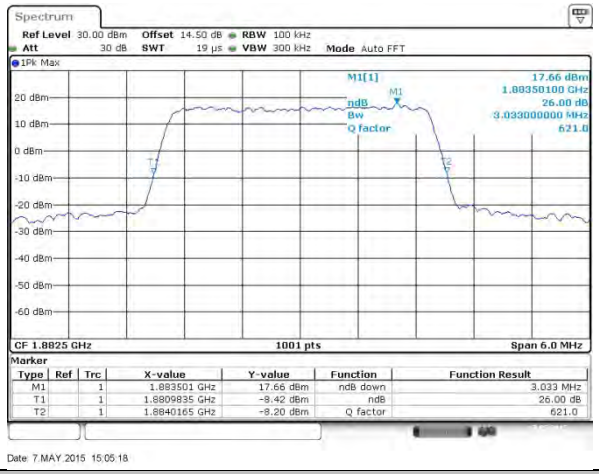
Lowest Channel / 3MHz / QPSK



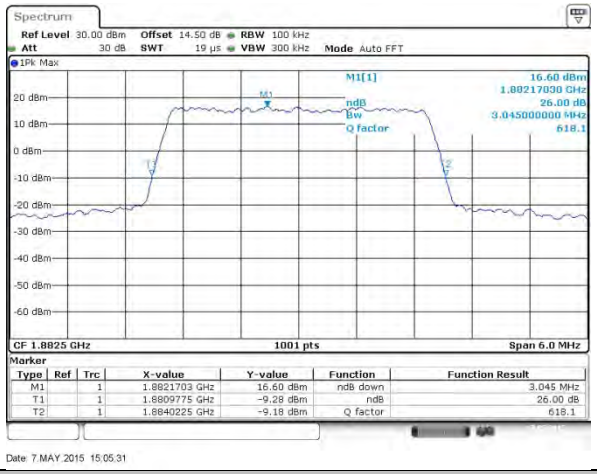
Lowest Channel / 3MHz / 16QAM



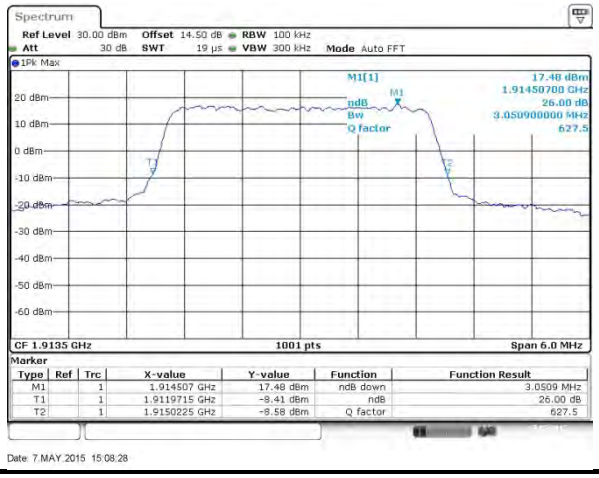
Middle Channel / 3MHz / QPSK



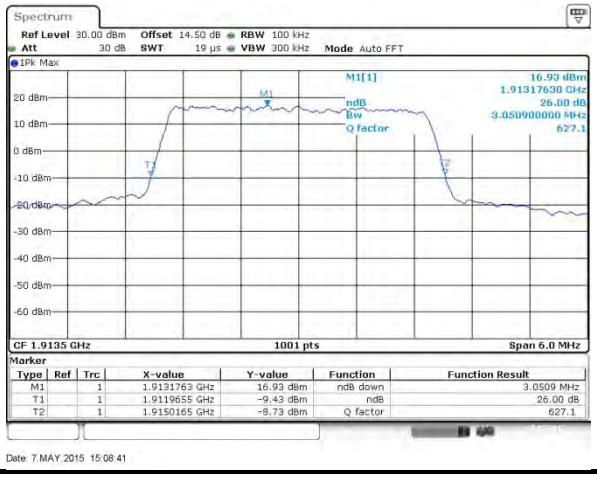
Middle Channel /3MHz / 16QAM



Highest Channel /3MHz / QPSK

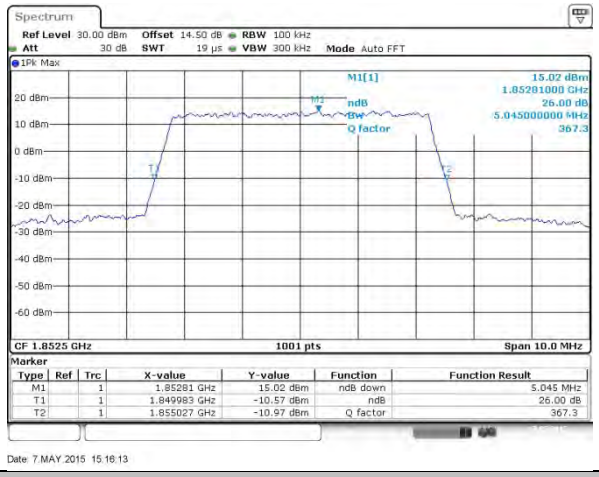


Highest Channel /3MHz / 16QAM

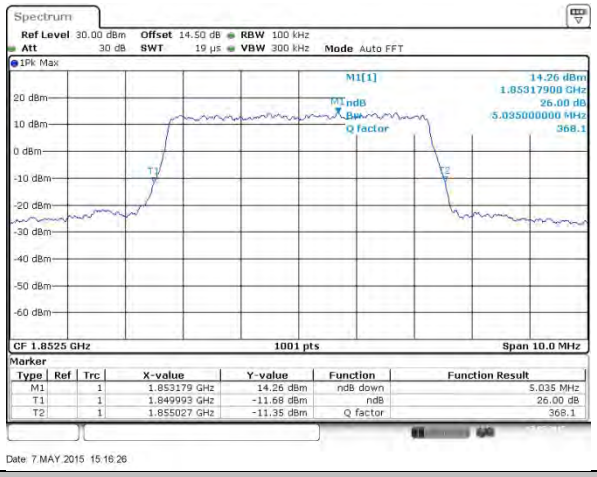


LTE Band 25

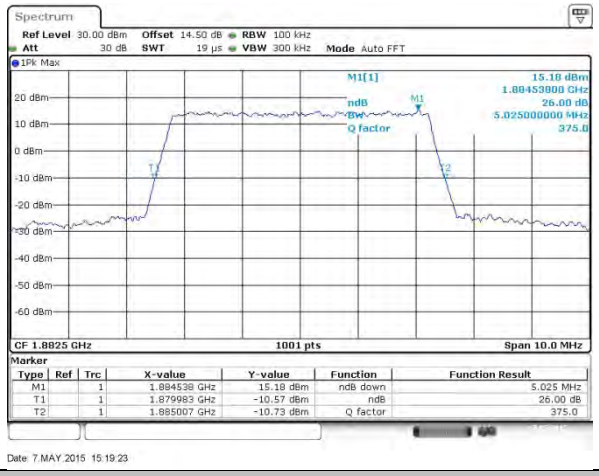
Lowest Channel / 5MHz / QPSK



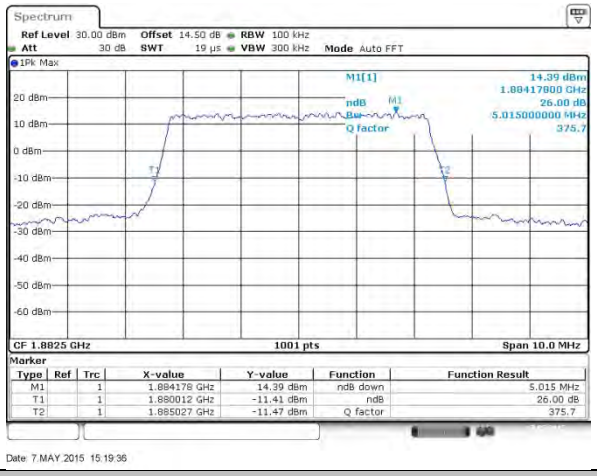
Lowest Channel / 5MHz / 16QAM



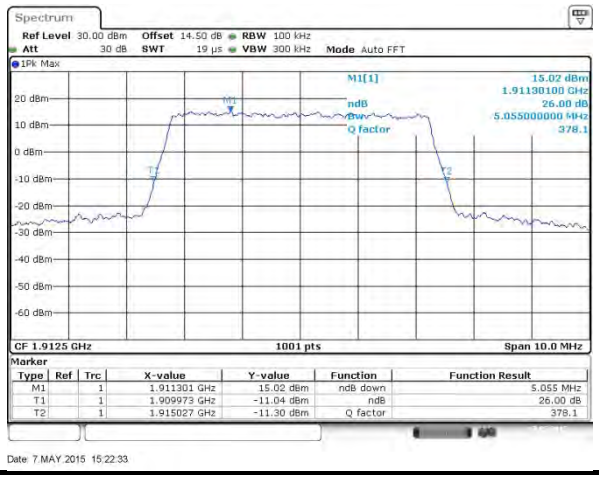
Middle Channel / 5MHz / QPSK



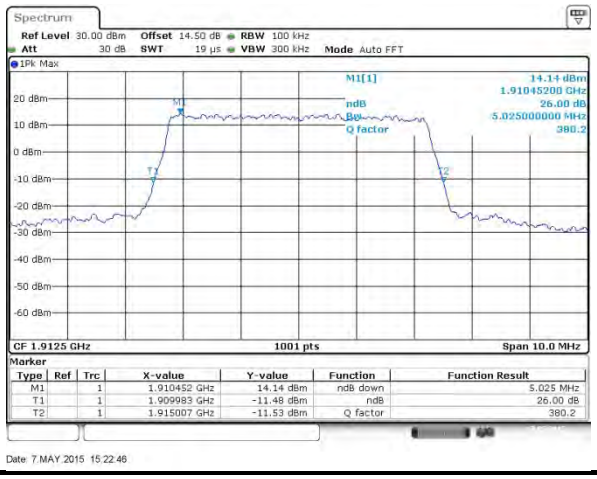
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

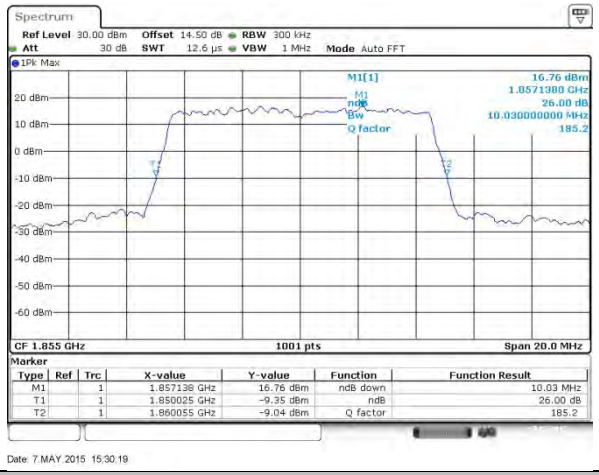


Highest Channel / 5MHz / 16QAM

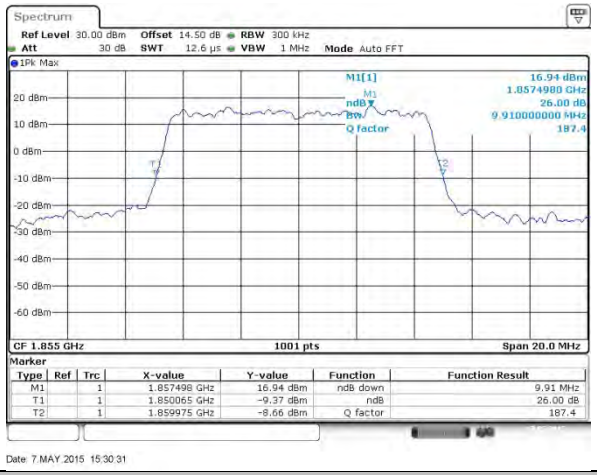


LTE Band 25

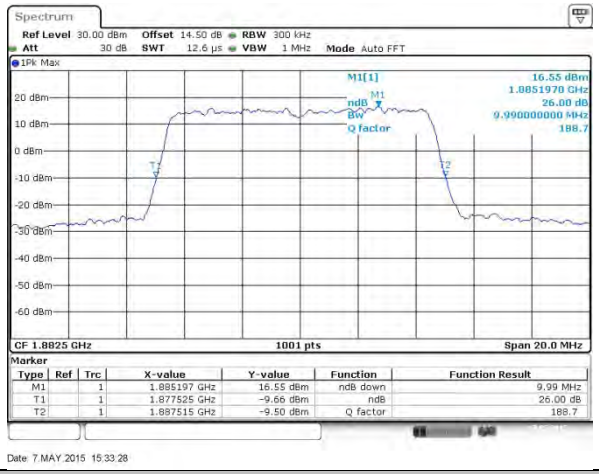
Lowest Channel / 10MHz / QPSK



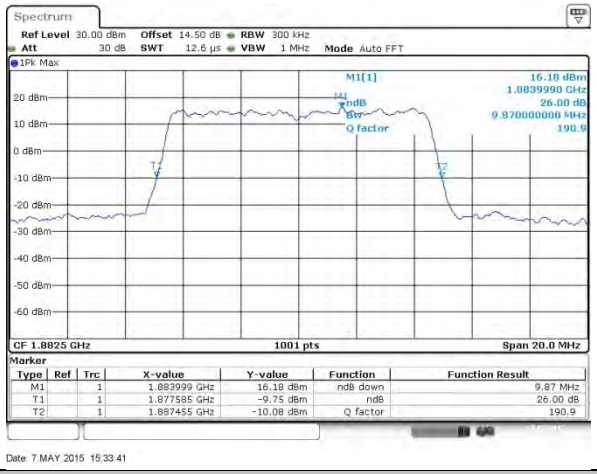
Lowest Channel / 10MHz / 16QAM



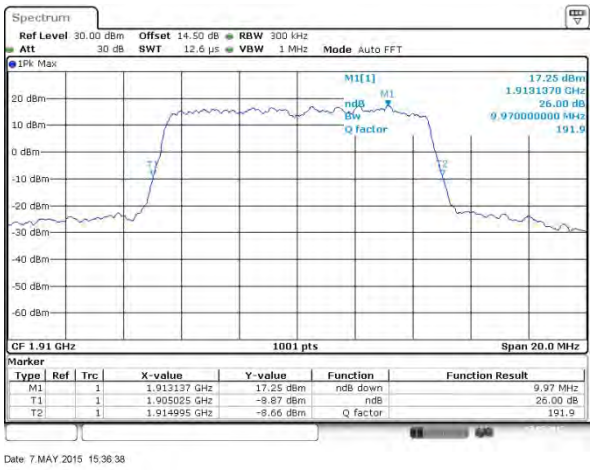
Middle Channel / 10MHz / QPSK



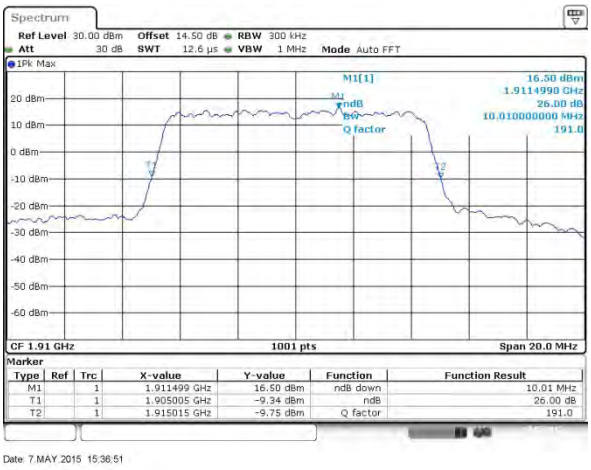
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

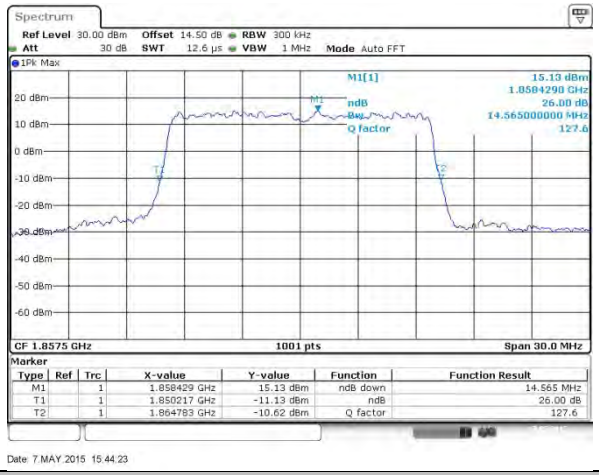


Highest Channel / 10MHz / 16QAM

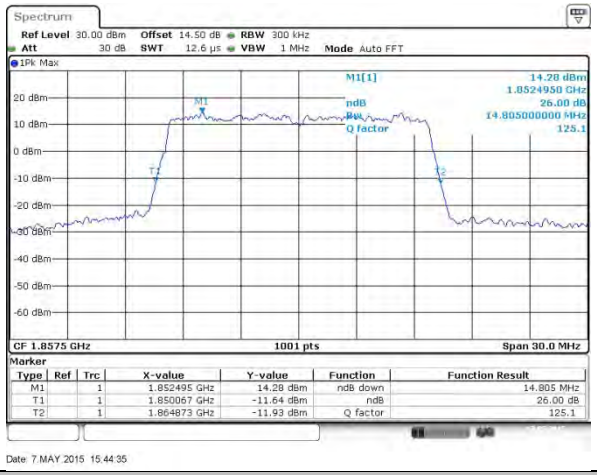


LTE Band 25

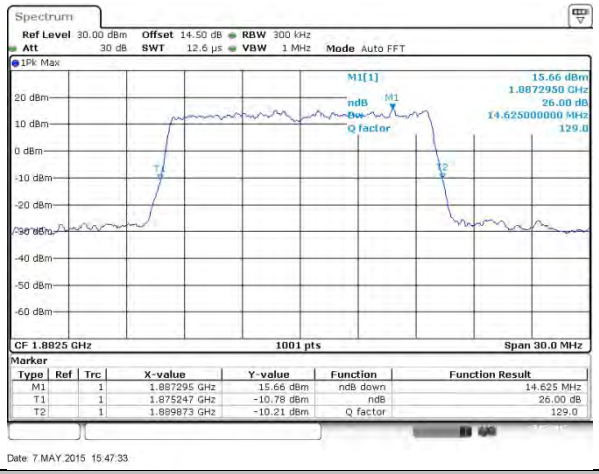
Lowest Channel / 15MHz / QPSK



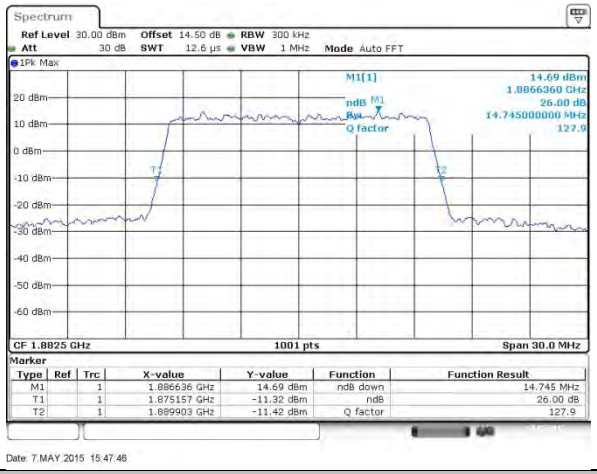
Lowest Channel / 15MHz / 16QAM



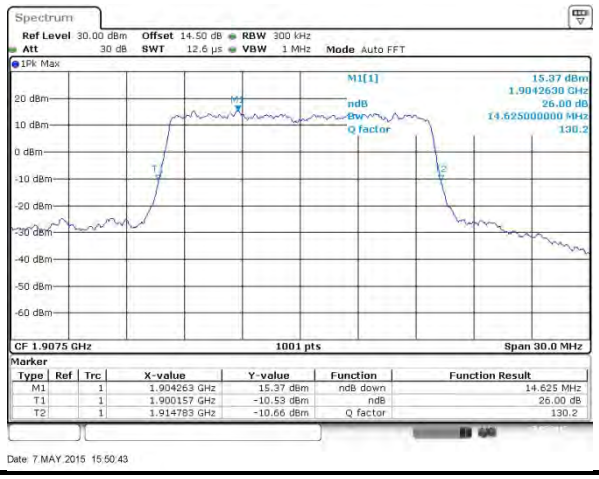
Middle Channel / 15MHz / QPSK



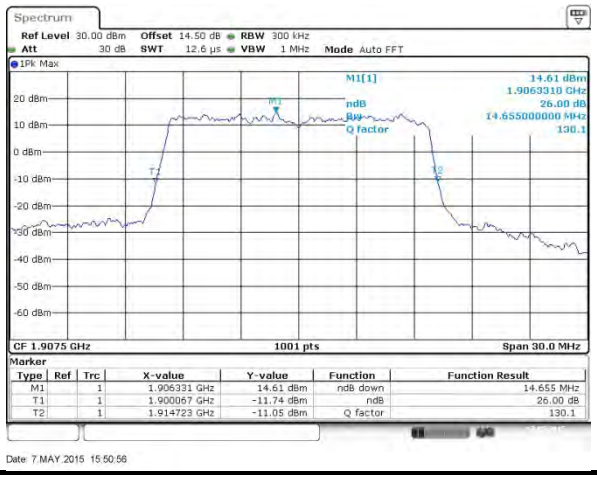
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

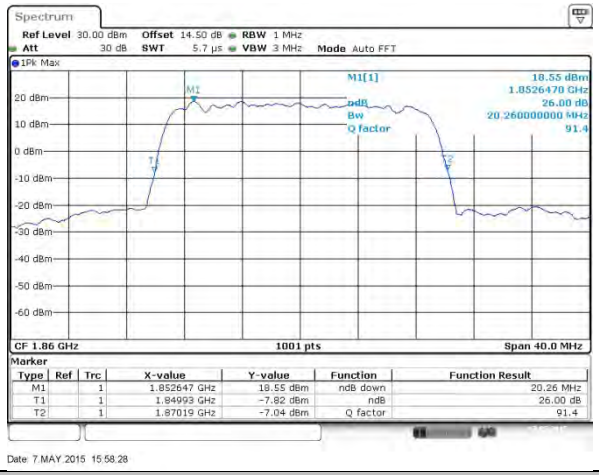


Highest Channel / 15MHz / 16QAM

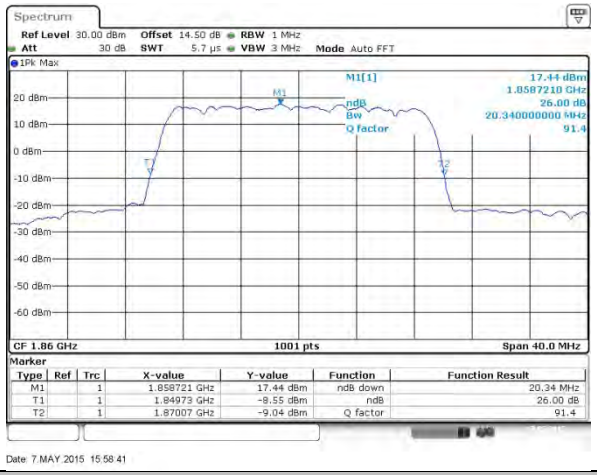


LTE Band 25

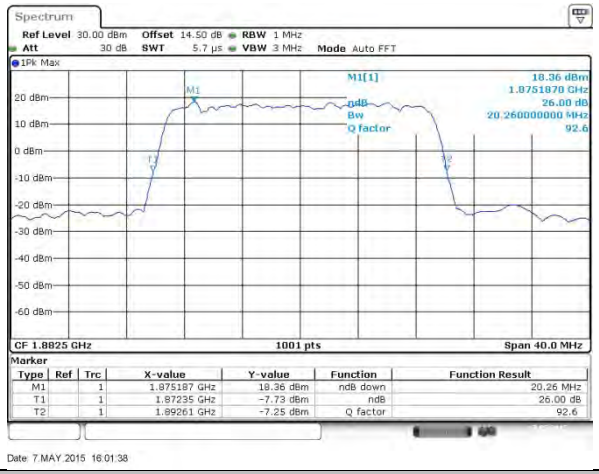
Lowest Channel / 20MHz / QPSK



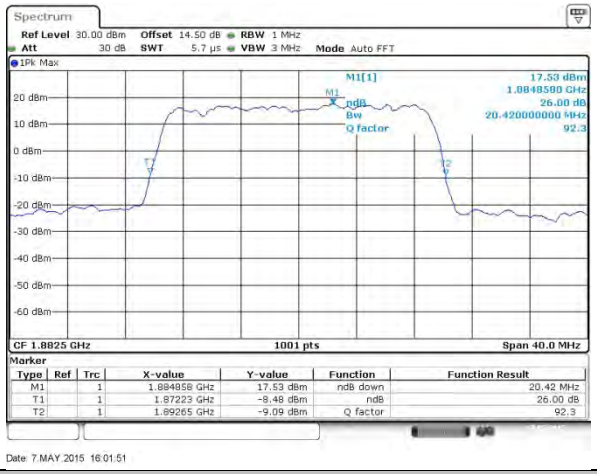
Lowest Channel / 20MHz / 16QAM



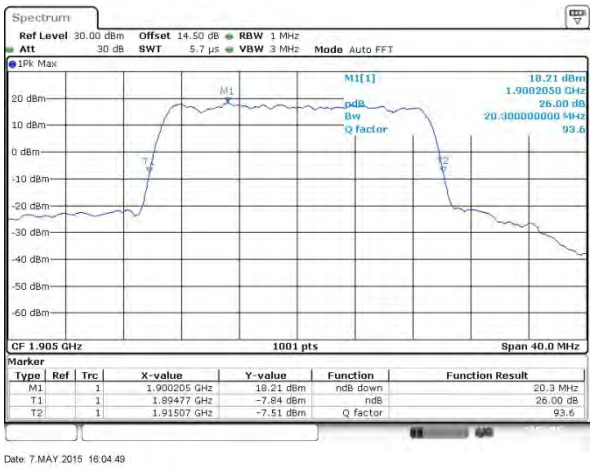
Middle Channel / 20MHz / QPSK



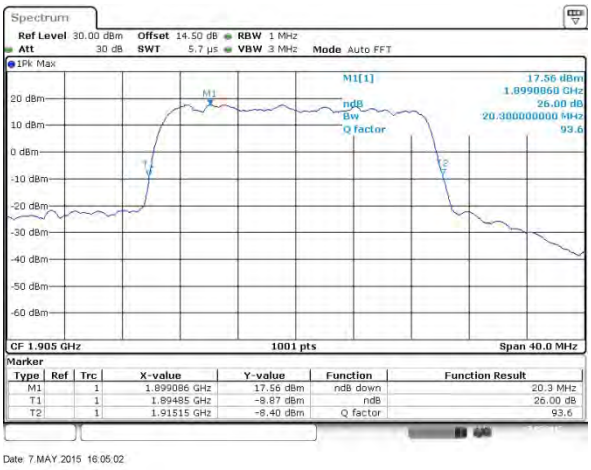
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

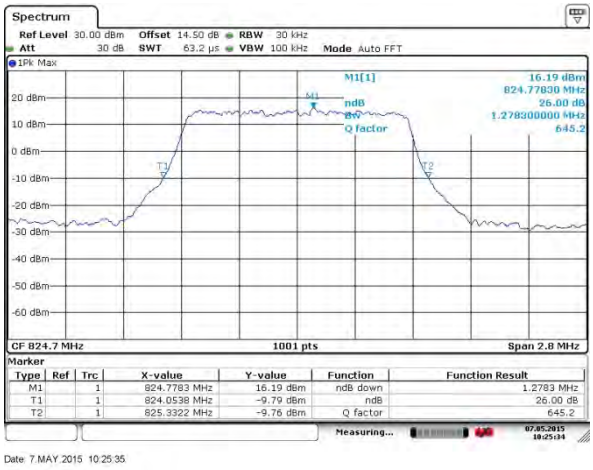


Highest Channel / 20MHz / 16QAM

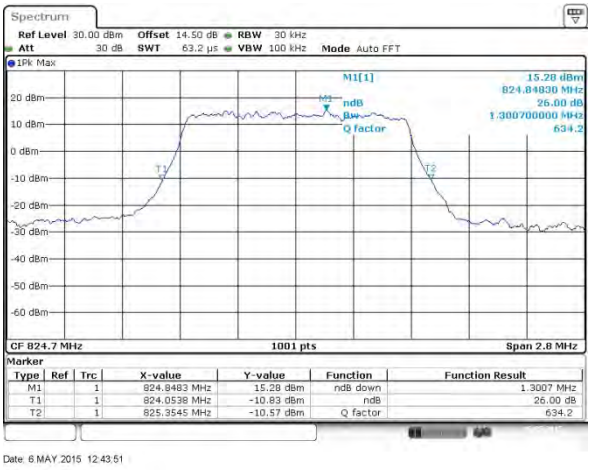


LTE Band 26

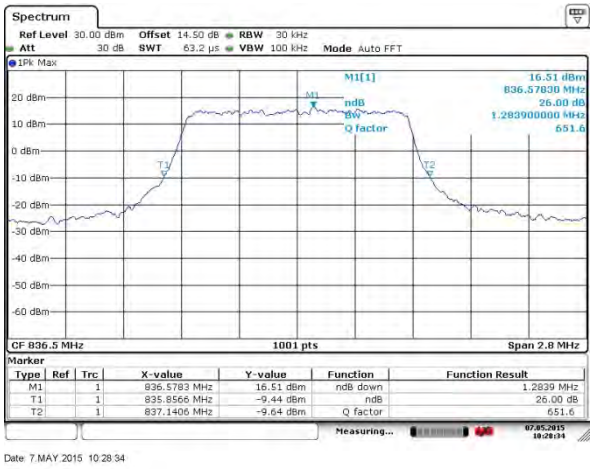
Lowest Channel / 1.4MHz / QPSK



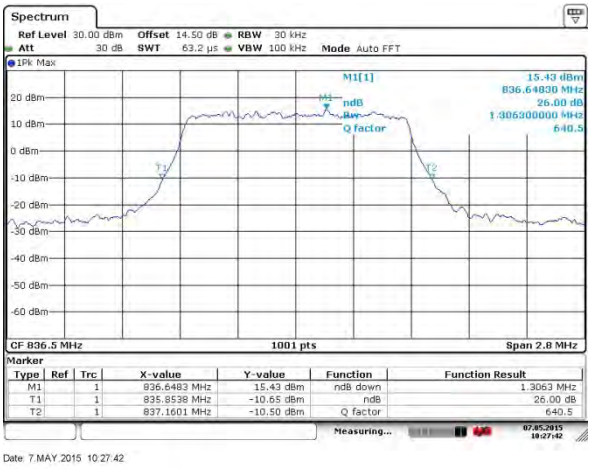
Lowest Channel / 1.4MHz / 16QAM



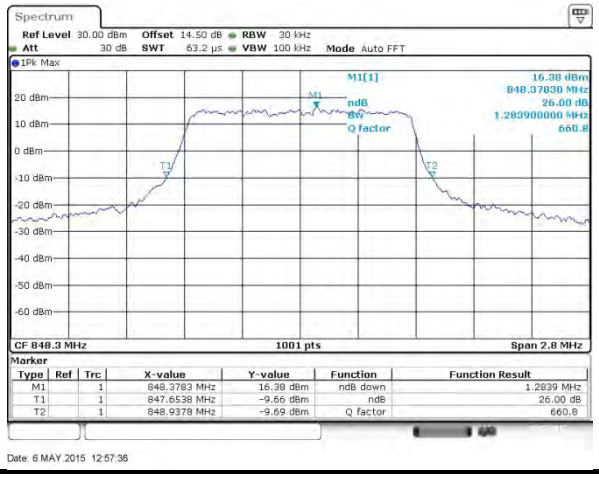
Middle Channel / 1.4MHz / QPSK



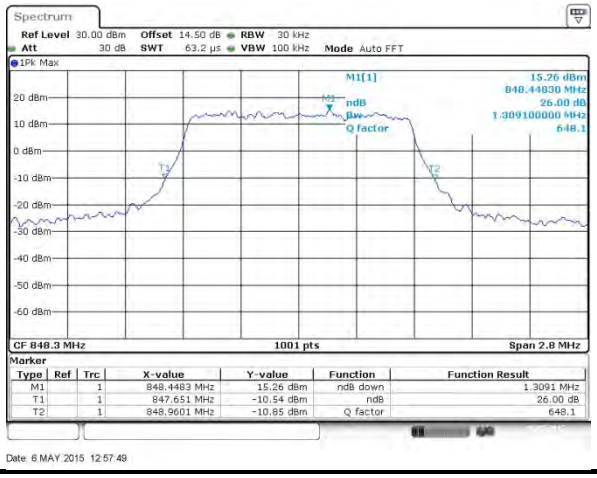
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

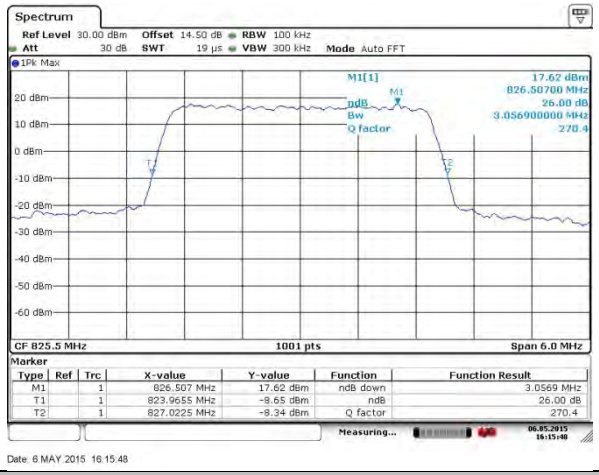


Highest Channel / 1.4MHz / 16QAM

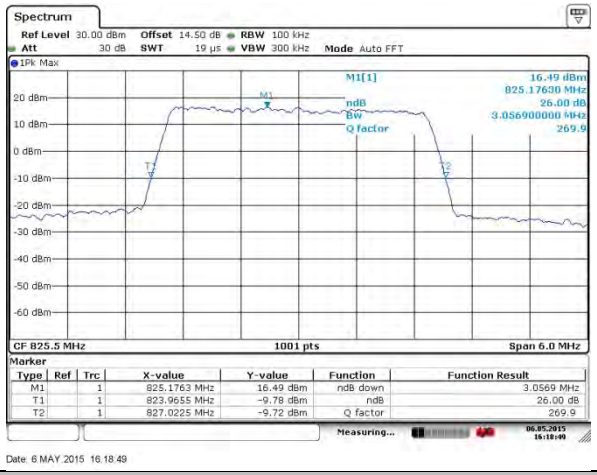


LTE Band 26

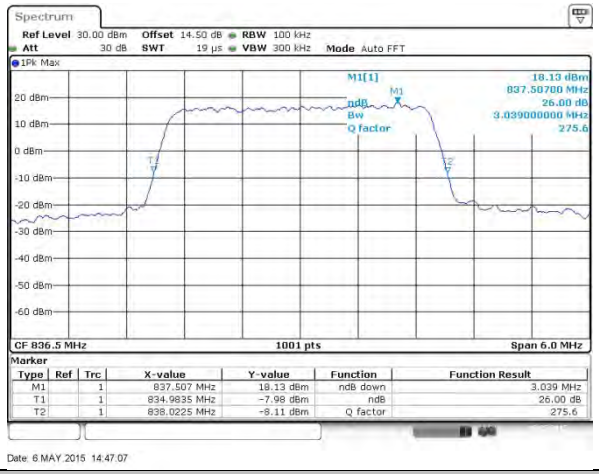
Lowest Channel / 3MHz / QPSK



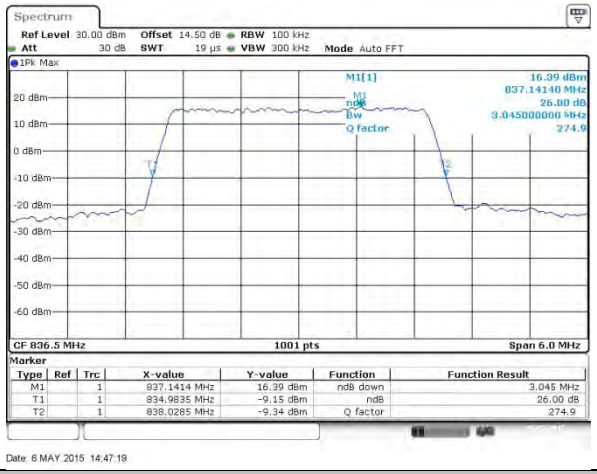
Lowest Channel / 3MHz / 16QAM



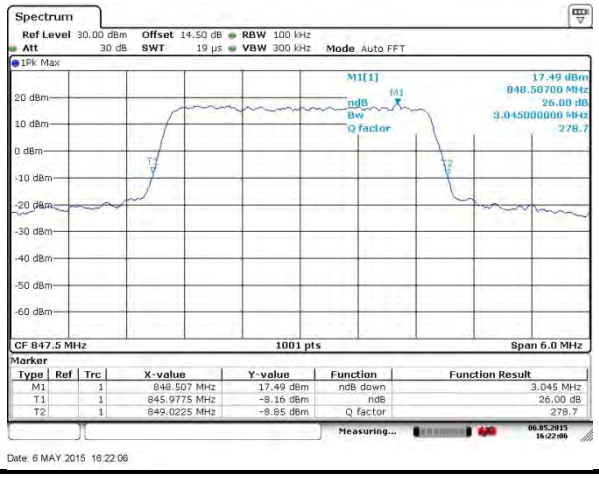
Middle Channel / 3MHz / QPSK



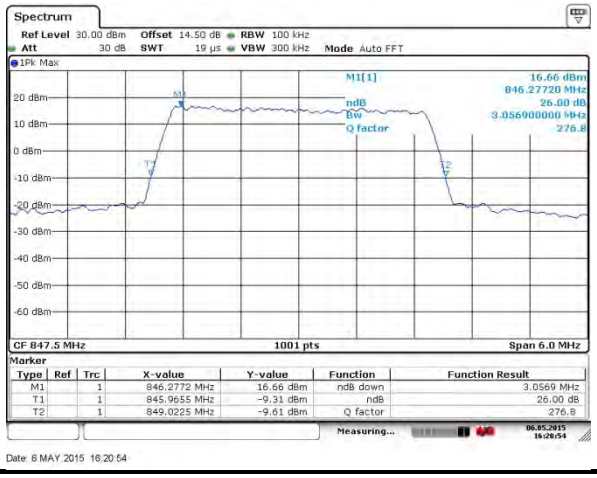
Middle Channel /3MHz / 16QAM



Highest Channel /3MHz / QPSK

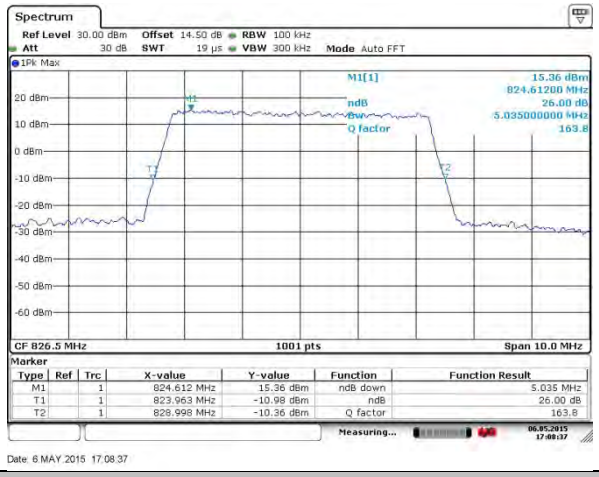


Highest Channel /3MHz / 16QAM



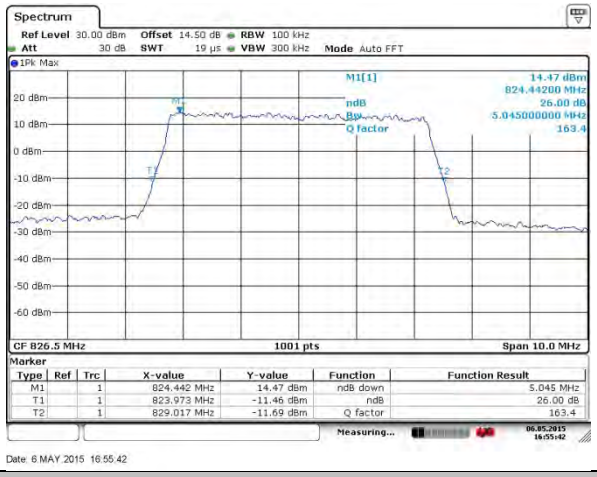
LTE Band 26

Lowest Channel / 5MHz / QPSK



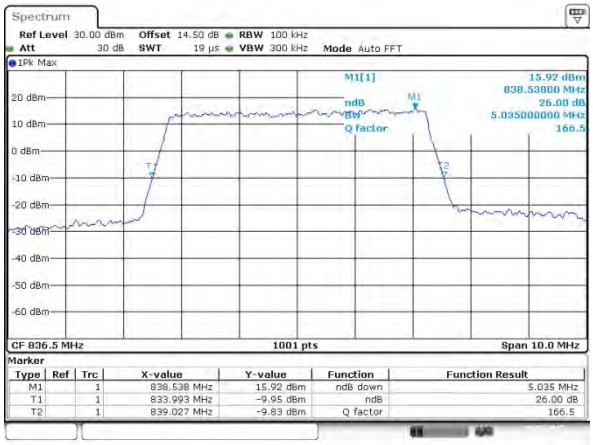
Date: 6 MAY 2015 17:08:37

Lowest Channel / 5MHz / 16QAM



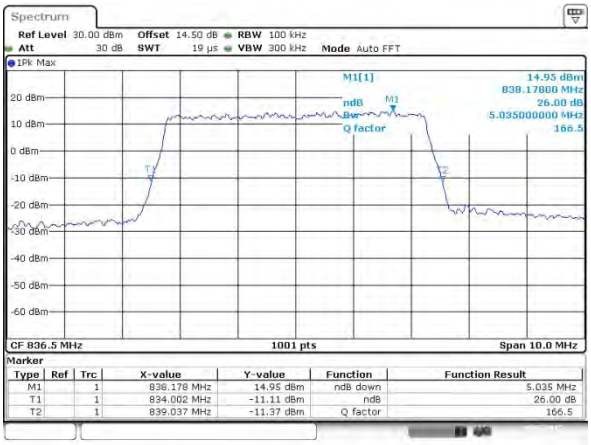
Date: 6 MAY 2015 16:55:42

Middle Channel / 5MHz / QPSK



Date: 6 MAY 2015 15:05:42

Middle Channel / 5MHz / 16QAM



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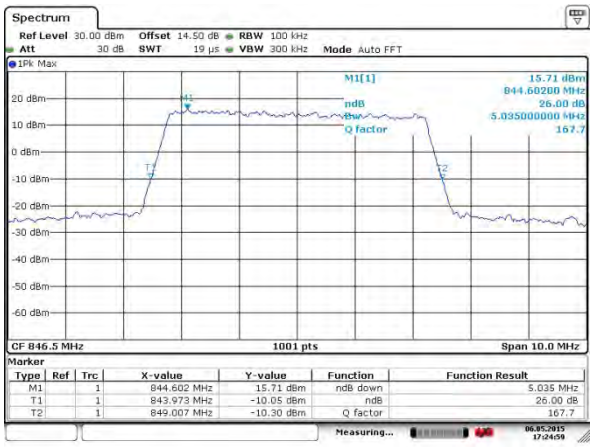
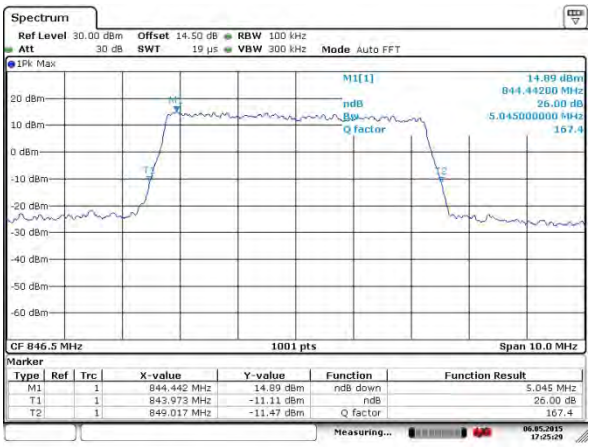
Highest Channel / 5MHz / QPSK



Date: 6 MAY 2015 17:25:00

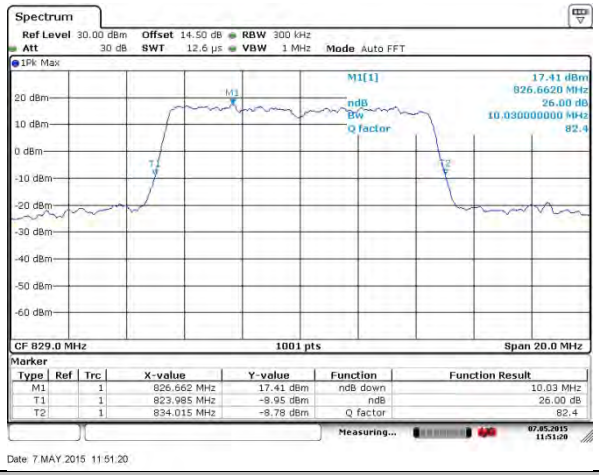
Highest Channel / 5MHz / 16QAM



Date: 6 MAY 2015 17:25:28

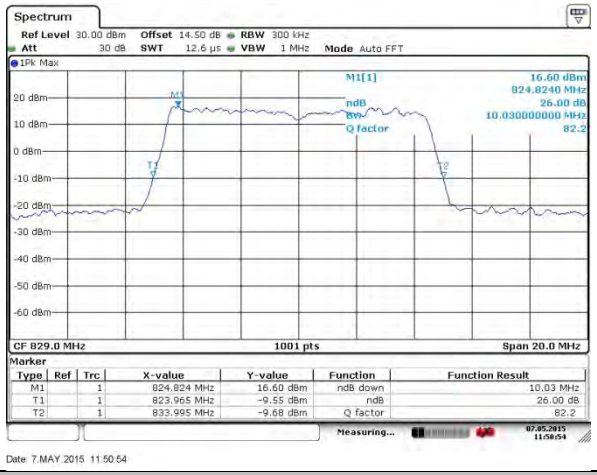
LTE Band 26

Lowest Channel / 10MHz / QPSK



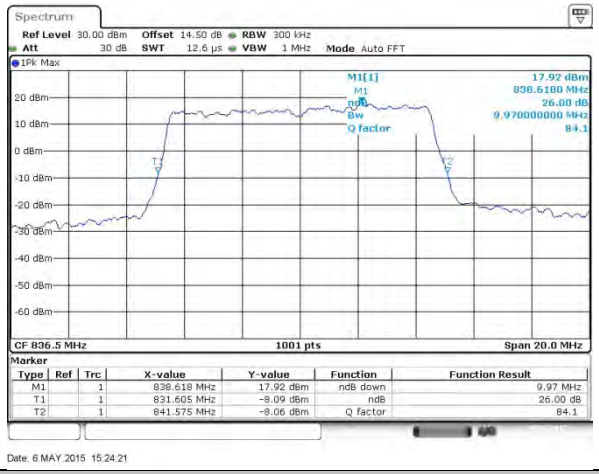
Date: 7.MAY.2015 11:51:20

Lowest Channel / 10MHz / 16QAM



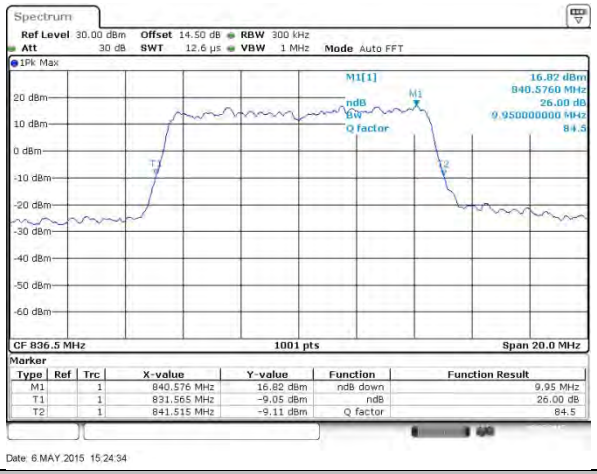
Date: 7.MAY.2015 11:50:54

Middle Channel / 10MHz / QPSK



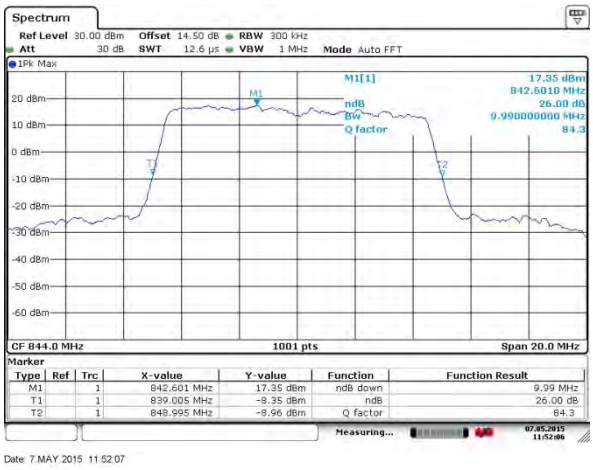
Date: 6.MAY.2015 15:24:21

Middle Channel / 10MHz / 16QAM



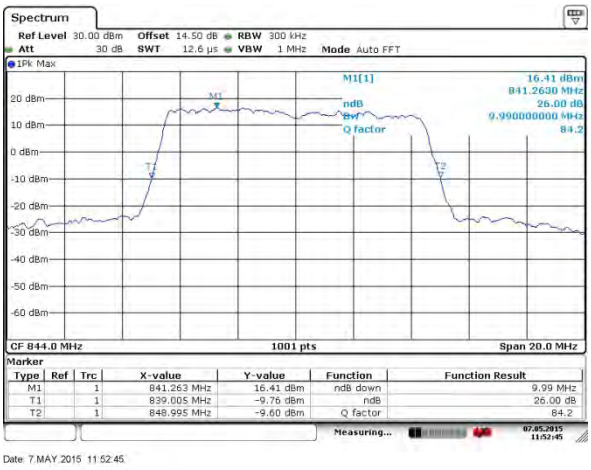
Date: 6.MAY.2015 15:24:34

Highest Channel / 10MHz / QPSK



Date: 7.MAY.2015 11:52:07

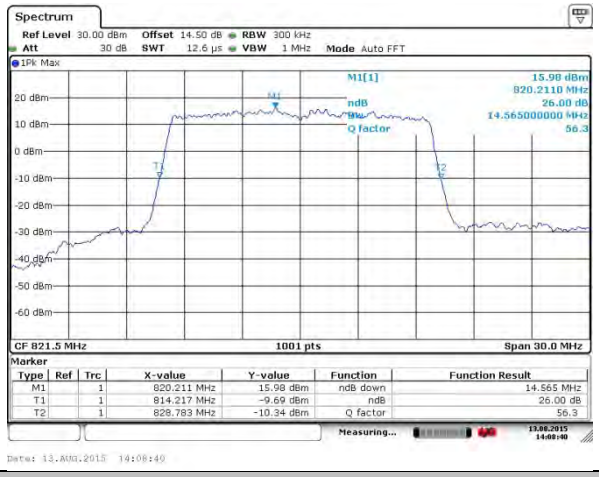
Highest Channel / 10MHz / 16QAM



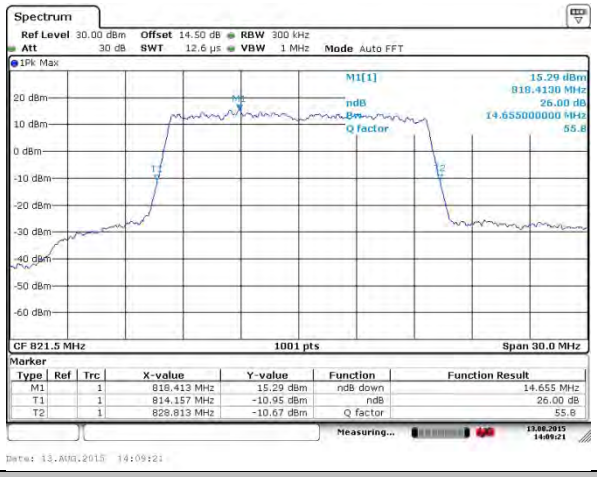
Date: 7.MAY.2015 11:52:45

LTE Band 26

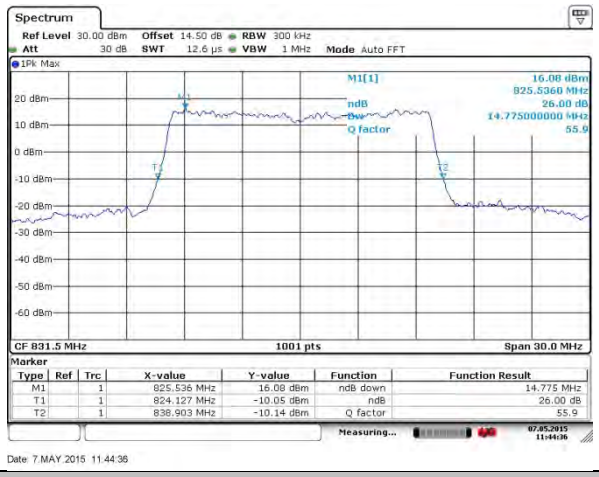
Channel 26765 / 15MHz / QPSK



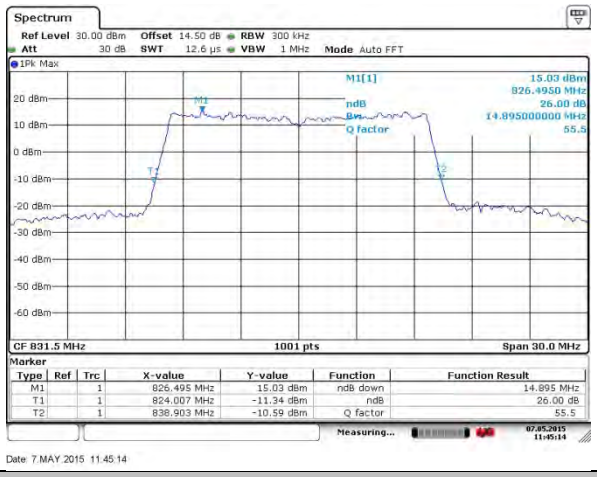
Channel 26765 / 15MHz / 16QAM



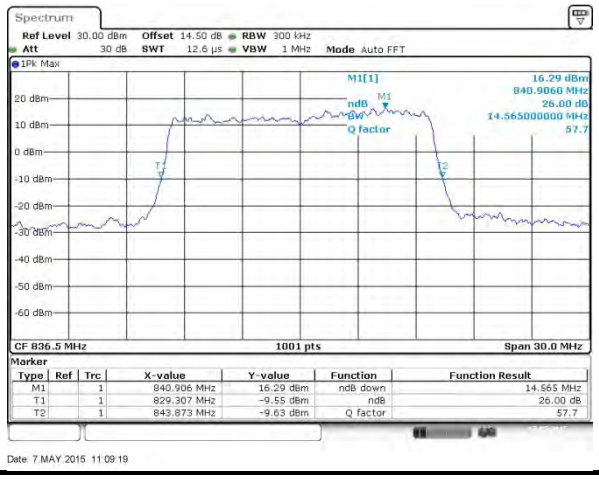
Lowest Channel / 15MHz / QPSK



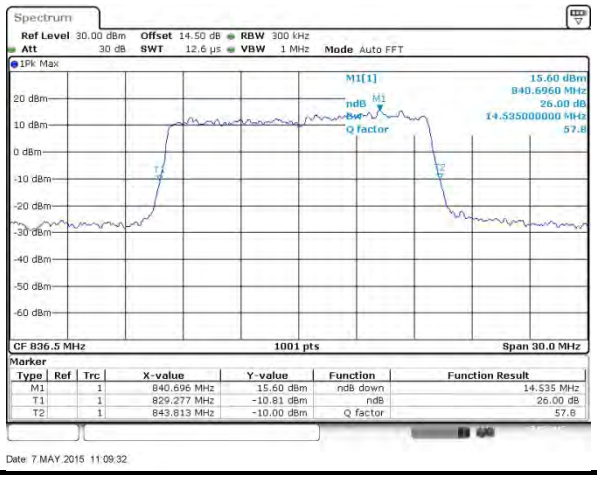
Lowest Channel / 15MHz / 16QAM

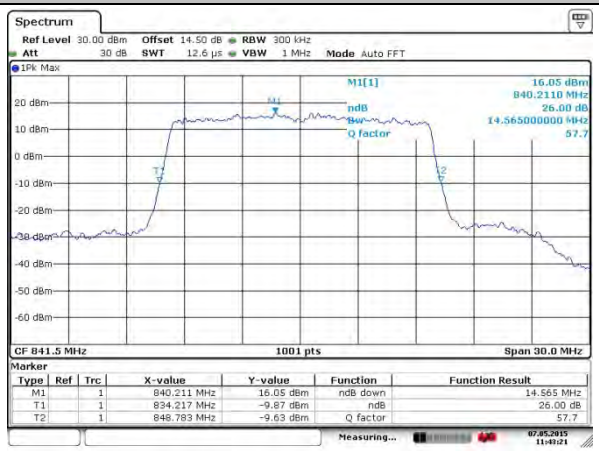
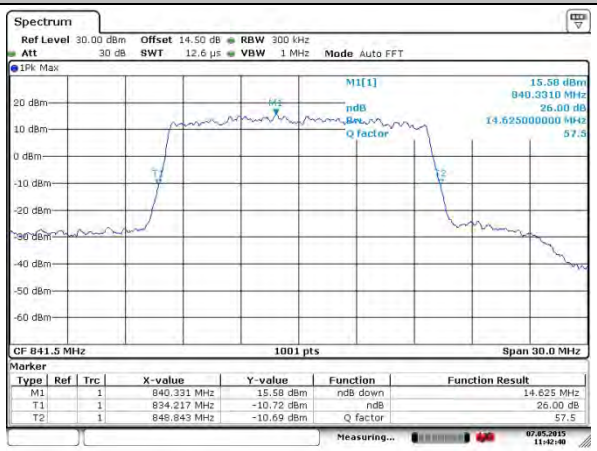


Middle Channel / 15MHz / QPSK



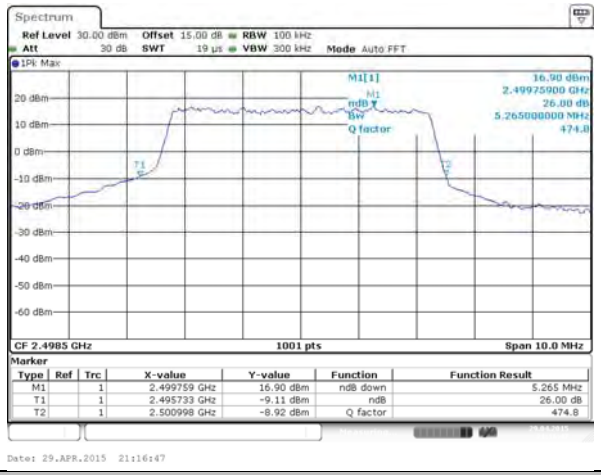
Middle Channel / 15MHz / 16QAM



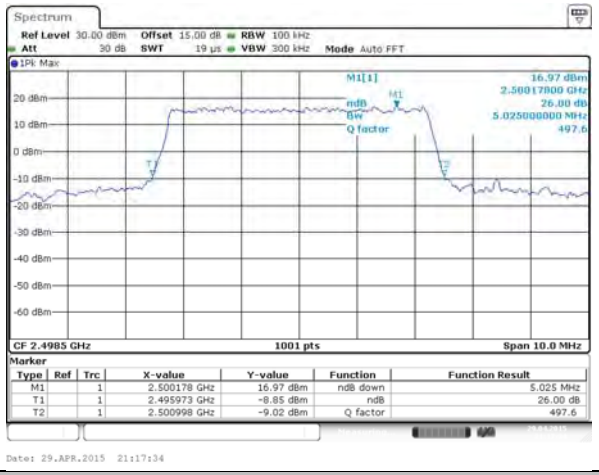
Highest Channel / 15MHz / QPSK	Highest Channel / 15MHz / 16QAM
	

LTE Band 41

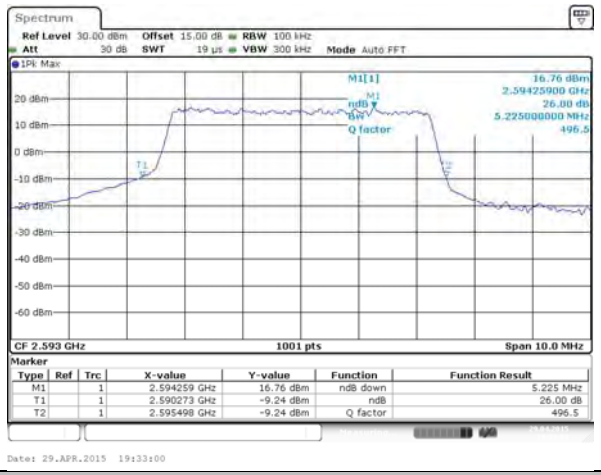
Lowest Channel / 5MHz / QPSK



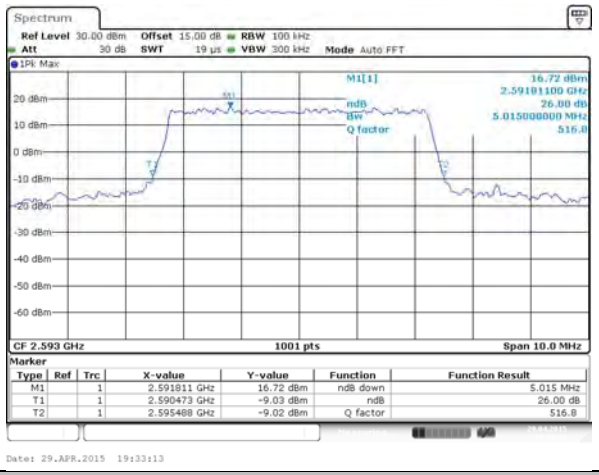
Lowest Channel / 5MHz / 16QAM



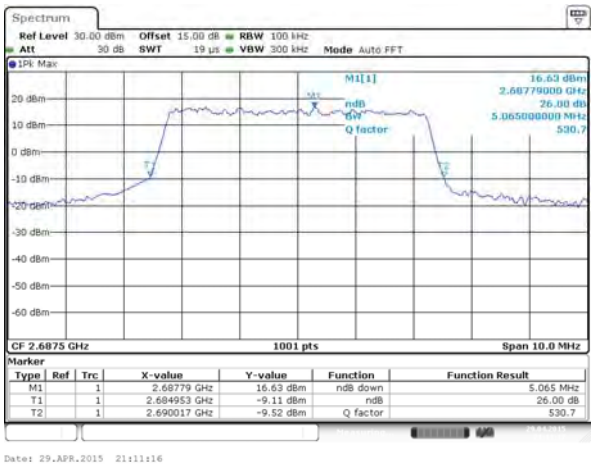
Middle Channel / 5MHz / QPSK



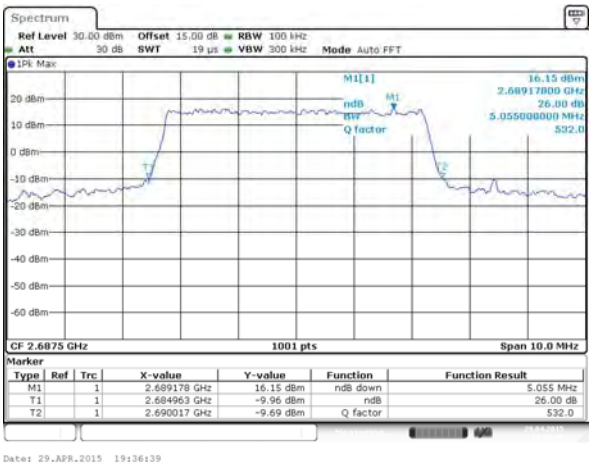
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

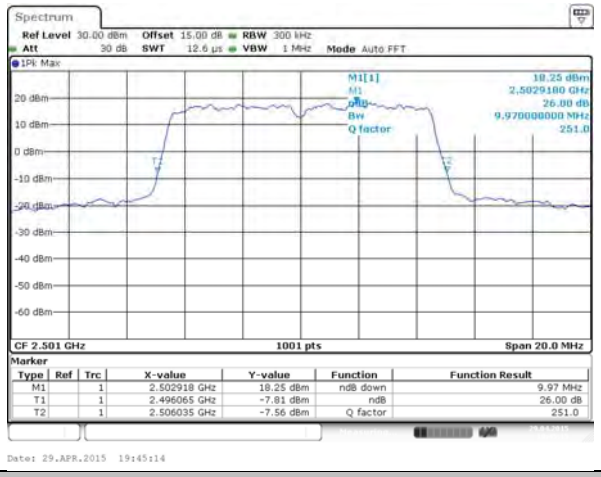


Highest Channel / 5MHz / 16QAM

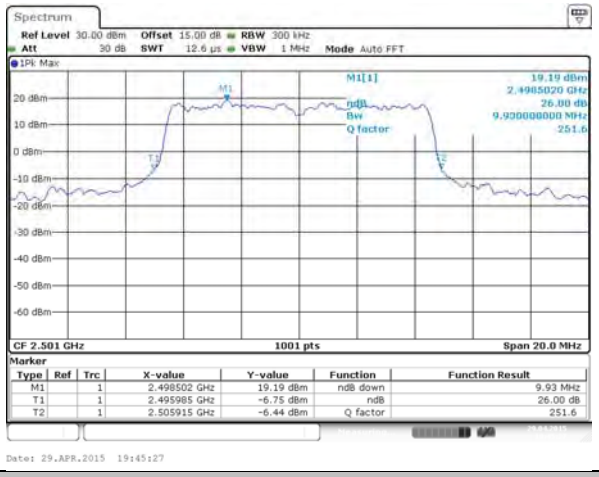


LTE Band 41

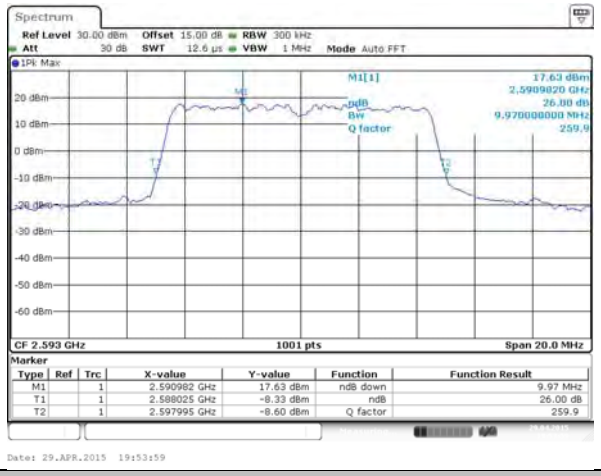
Lowest Channel / 10MHz / QPSK



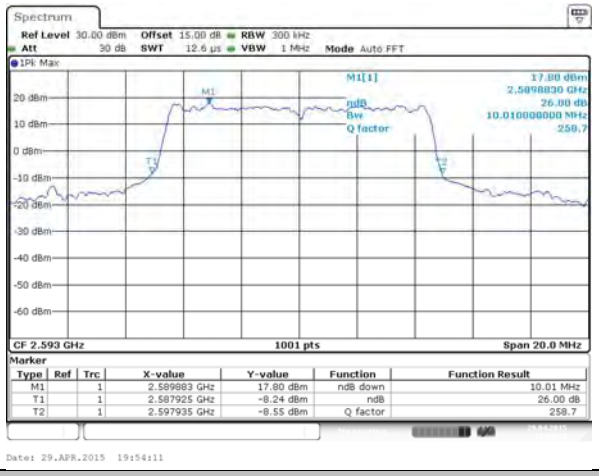
Lowest Channel / 10MHz / 16QAM



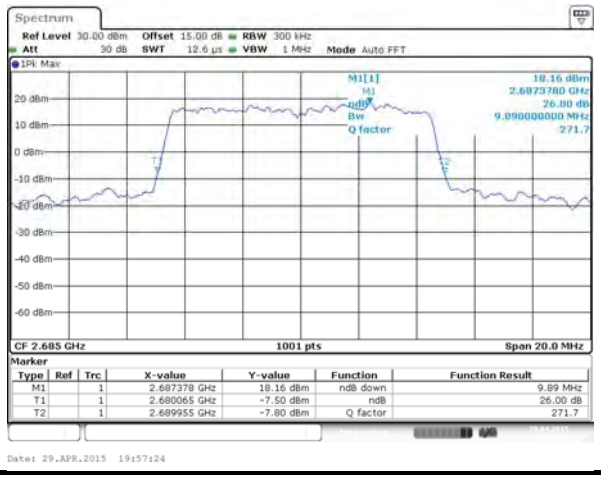
Middle Channel / 10MHz / QPSK



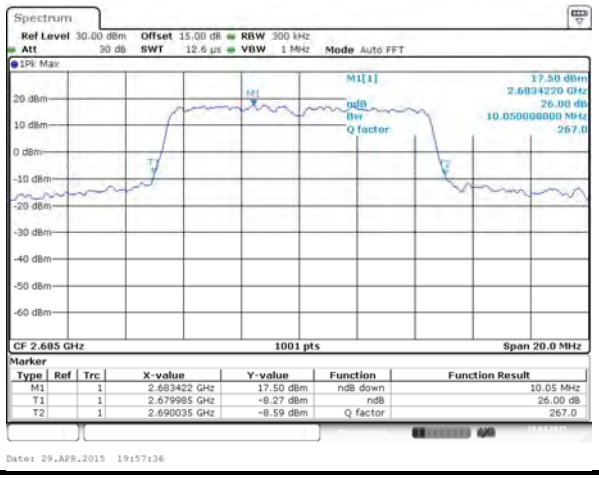
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

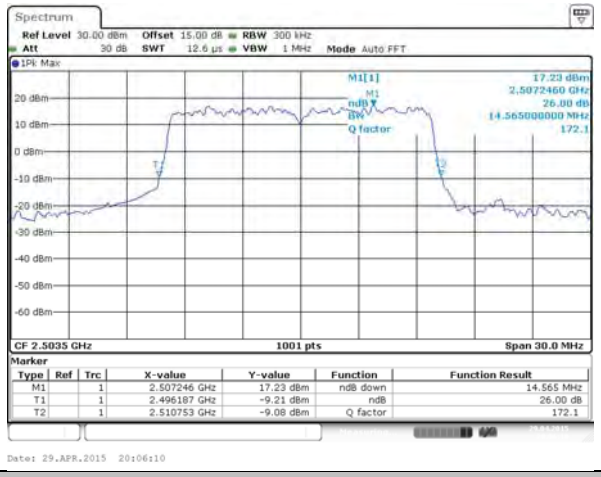


Highest Channel / 10MHz / 16QAM

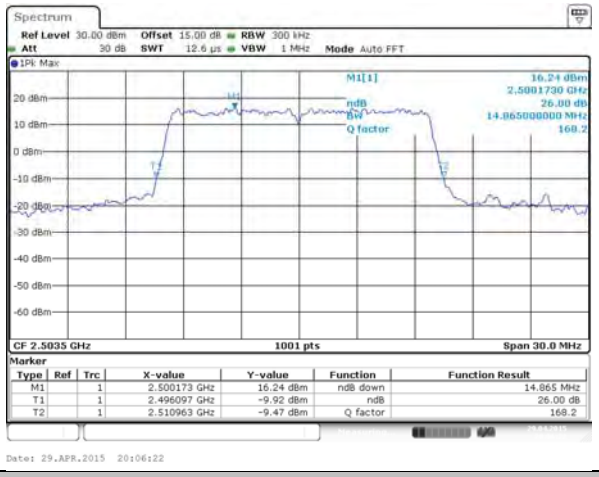


LTE Band 41

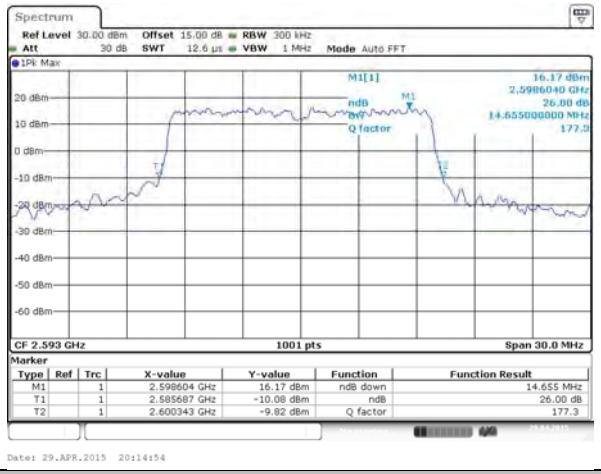
Lowest Channel / 15MHz / QPSK



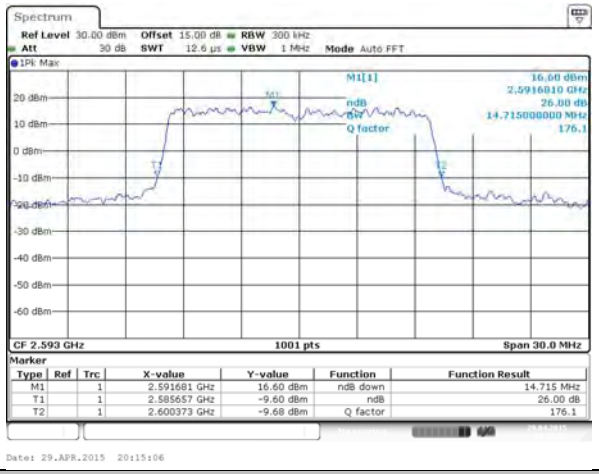
Lowest Channel / 15MHz / 16QAM



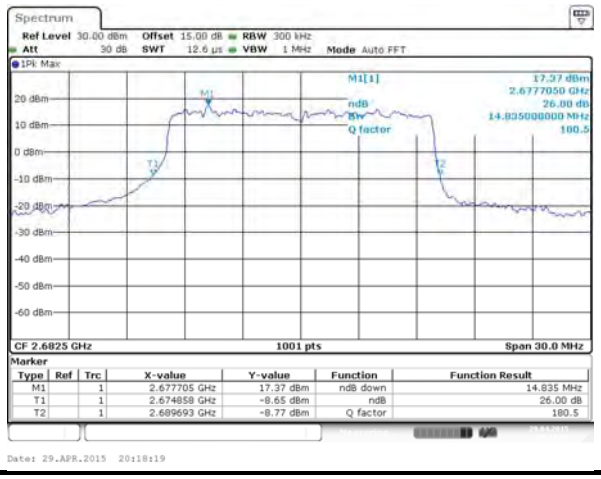
Middle Channel / 15MHz / QPSK



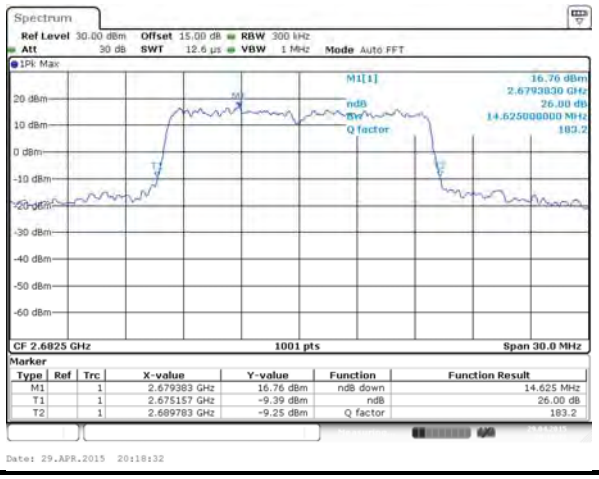
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

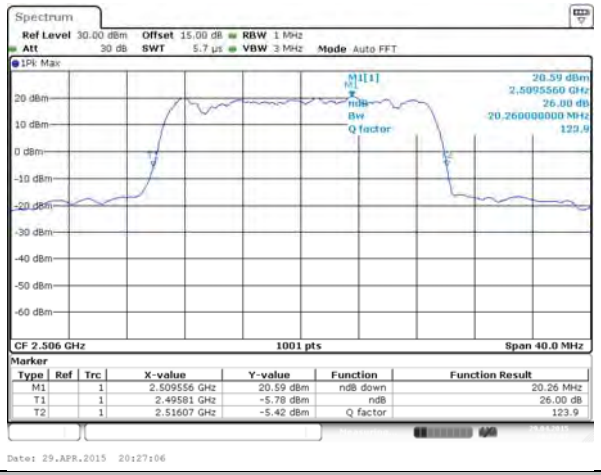


Highest Channel / 15MHz / 16QAM

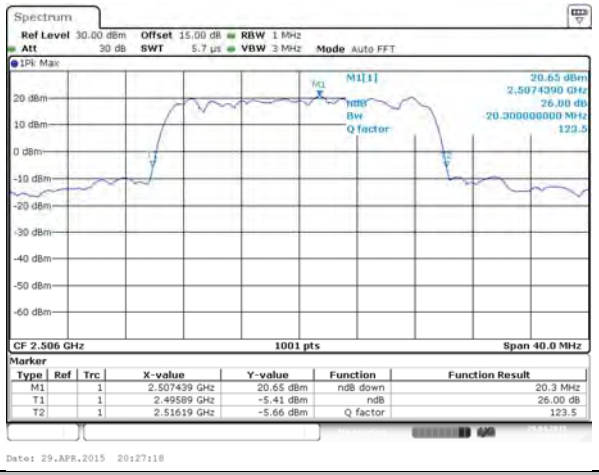


LTE Band 41

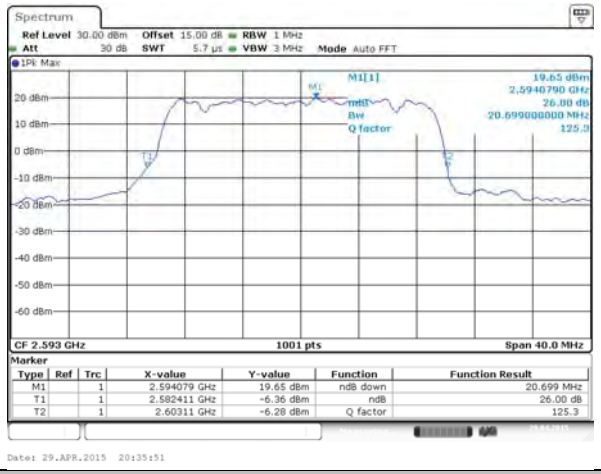
Lowest Channel / 20MHz / QPSK



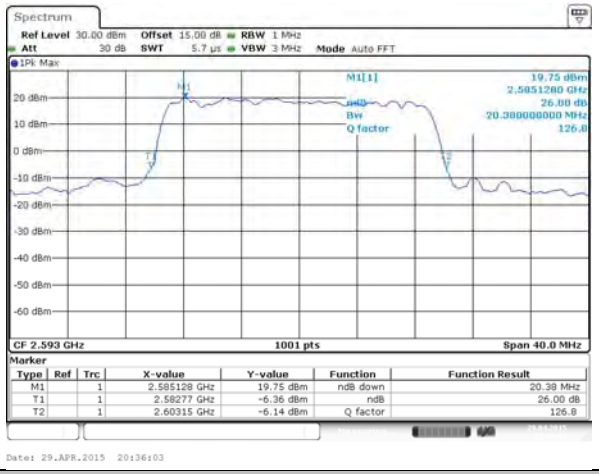
Lowest Channel / 20MHz / 16QAM



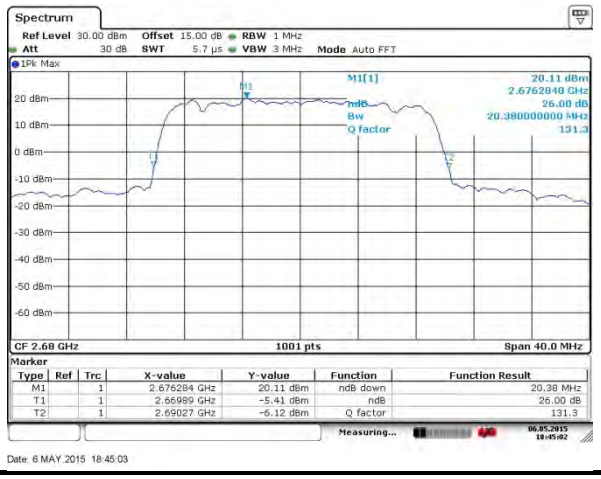
Middle Channel / 20MHz / QPSK



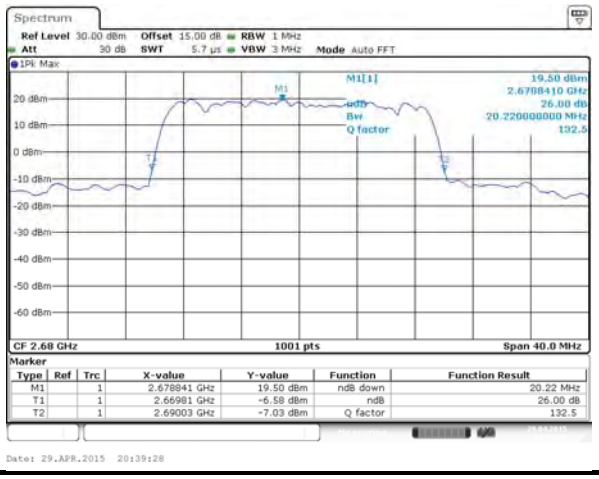
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



Occupied Bandwidth

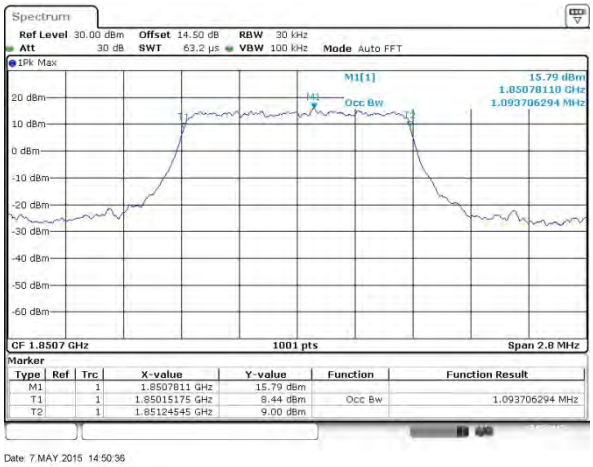
Mode	LTE Band 25 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.72	2.73	4.50	4.50	9.07	9.03	13.46	13.43	18.38	18.46
Middle CH	1.10	1.10	2.73	2.73	4.50	4.50	9.05	9.01	13.46	13.52	18.30	18.30
Highest CH	1.10	1.10	2.72	2.72	4.50	4.49	9.05	9.01	13.46	13.43	18.46	18.34

Mode	LTE Band 26: 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		Ch26765	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.73	2.73	4.51	4.50	9.01	8.97	13.55	13.52	13.43	13.40
Middle CH	1.09	1.10	2.73	2.72	4.50	4.50	9.01	8.99	13.40	13.43	-	-
Highest CH	1.10	1.10	2.73	2.73	4.51	4.50	8.95	8.91	13.40	13.37	-	-

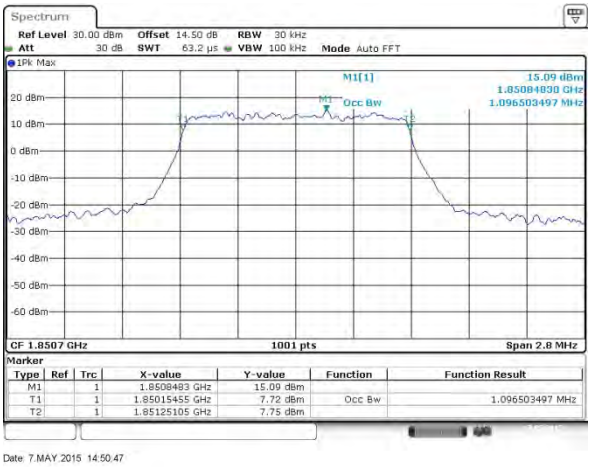
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.52	4.52	9.03	9.05	13.46	13.46	18.5	18.34
Middle CH	-	-	-	-	4.51	4.51	9.03	9.03	13.55	13.49	18.46	18.3
Highest CH	-	-	-	-	4.53	4.51	9.07	9.03	13.43	13.46	18.3	18.5

LTE Band 25

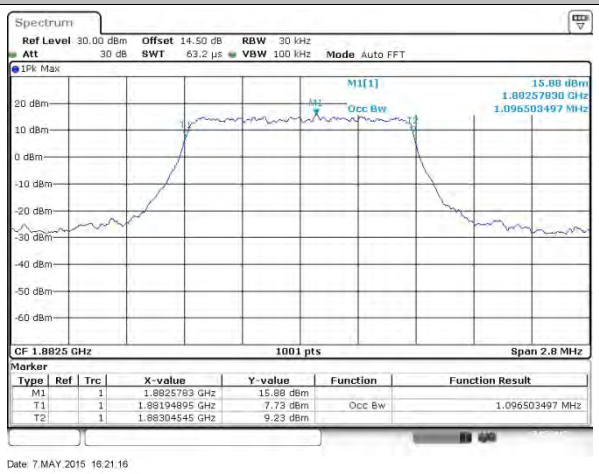
Lowest Channel / 1.4MHz / QPSK



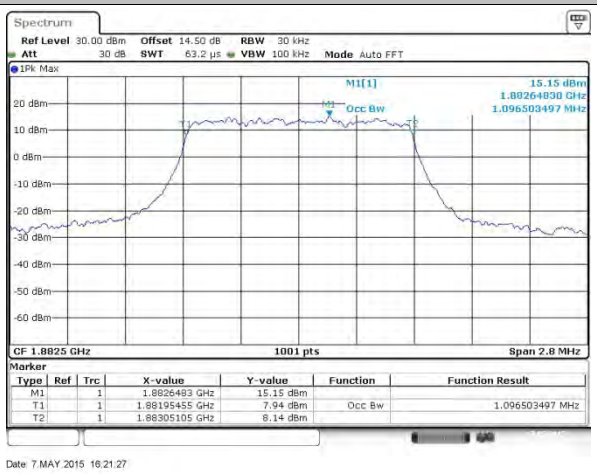
Lowest Channel / 1.4MHz / 16QAM



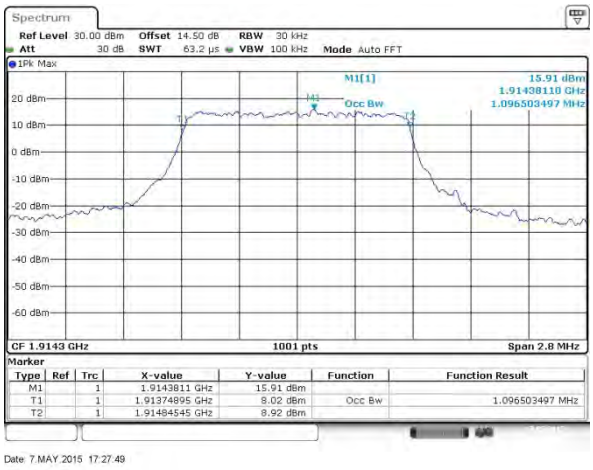
Middle Channel / 1.4MHz / QPSK



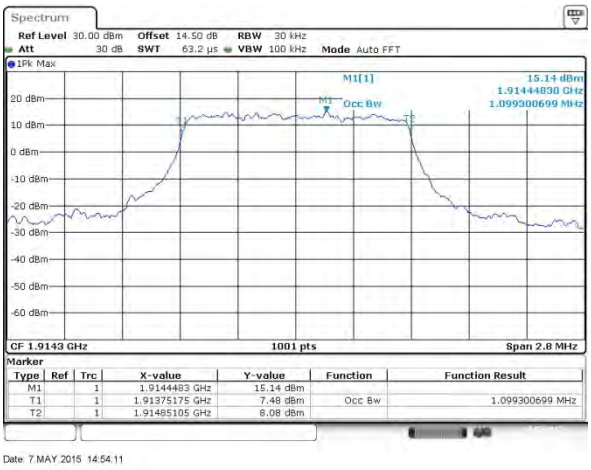
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

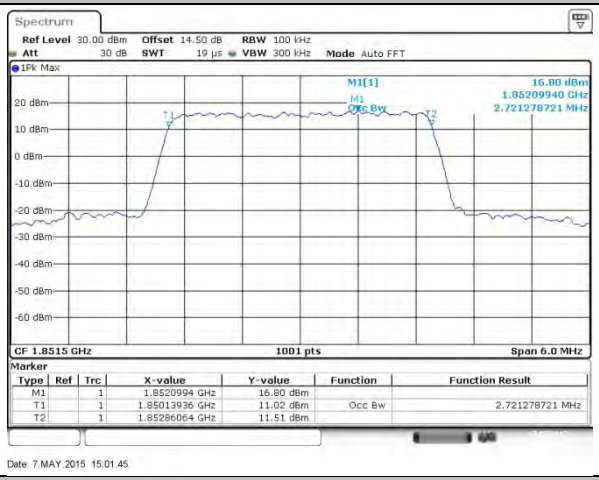


Highest Channel / 1.4MHz / 16QAM

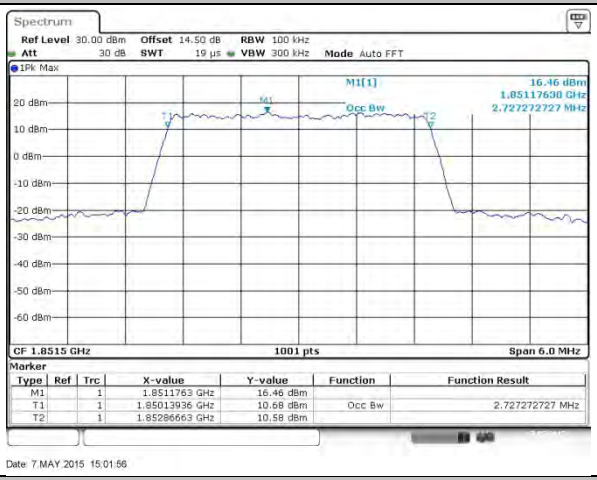


LTE Band 25

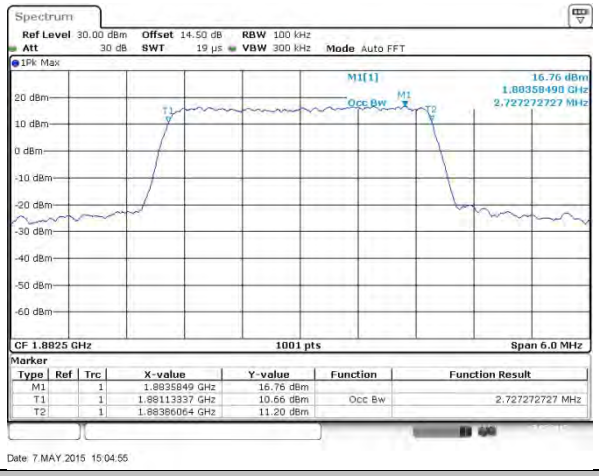
Lowest Channel / 3MHz / QPSK



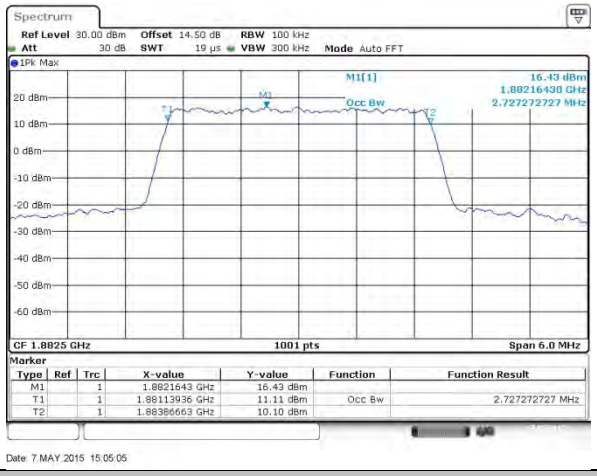
Lowest Channel / 3MHz / 16QAM



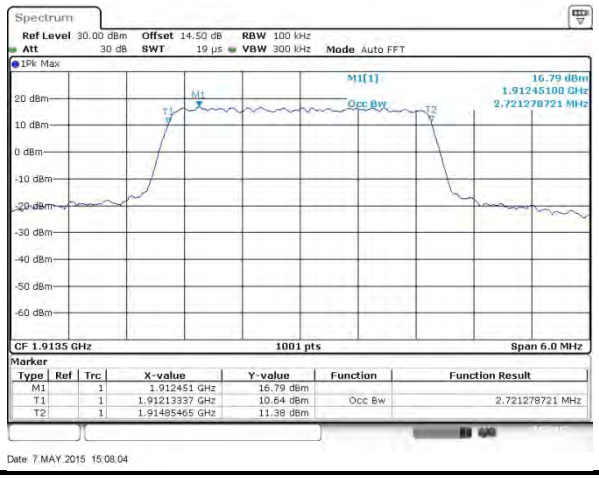
Middle Channel / 3MHz / QPSK



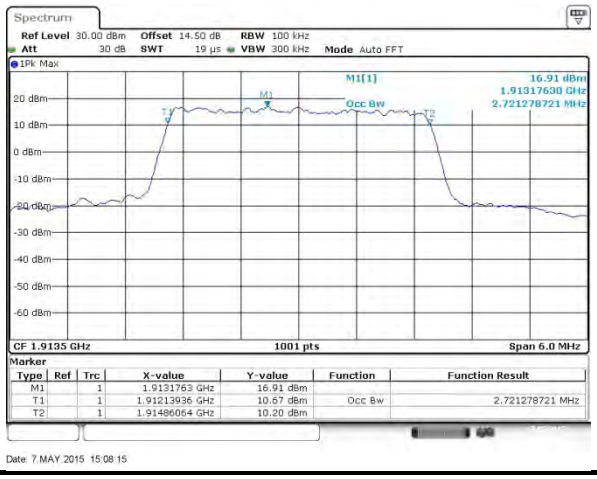
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

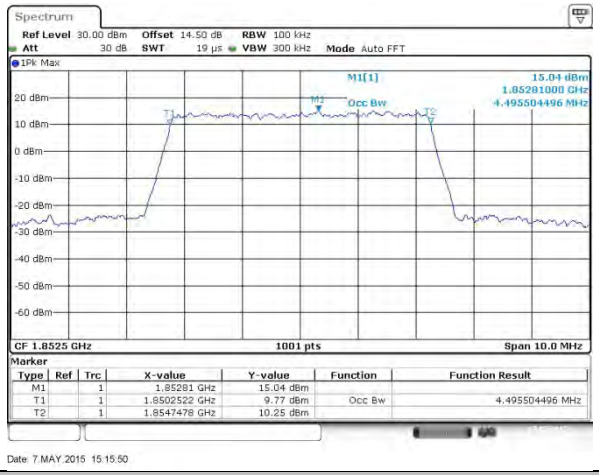


Highest Channel / 3MHz / 16QAM

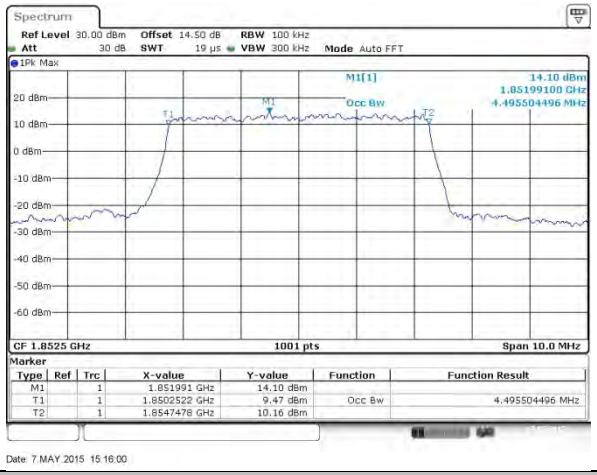


LTE Band 25

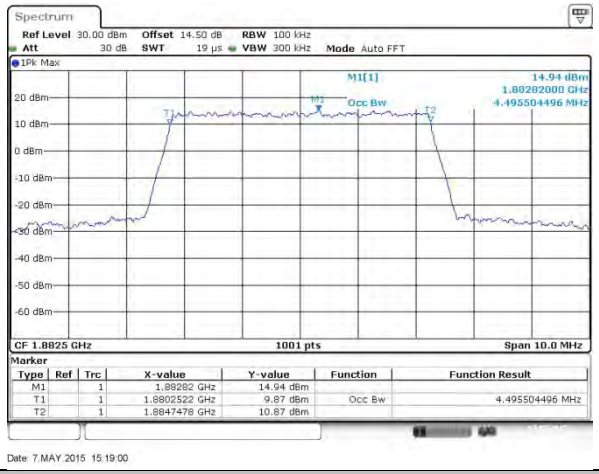
Lowest Channel / 5MHz / QPSK



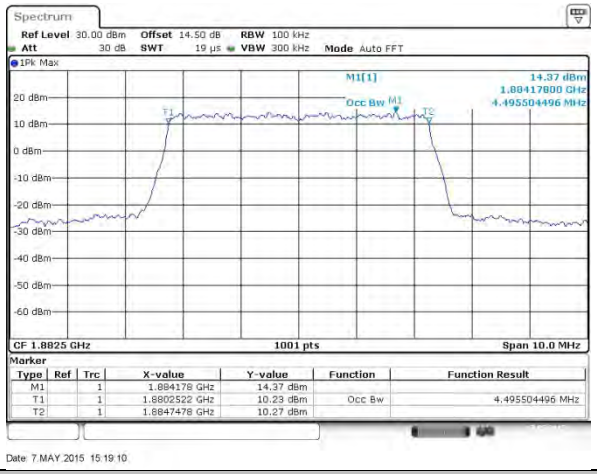
Lowest Channel / 5MHz / 16QAM



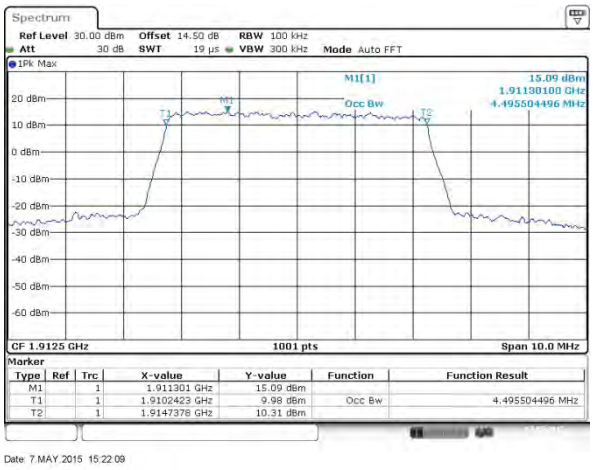
Middle Channel / 5MHz / QPSK



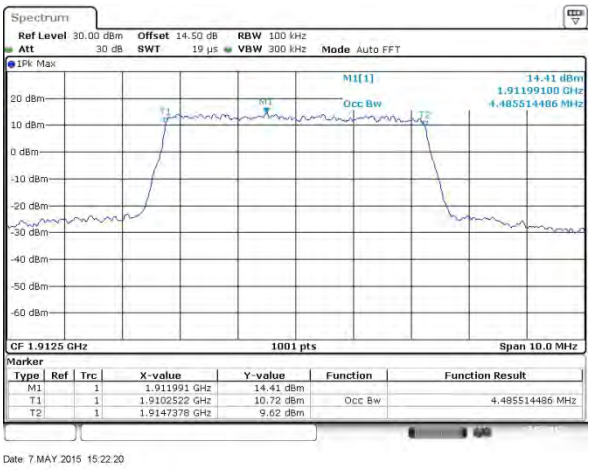
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

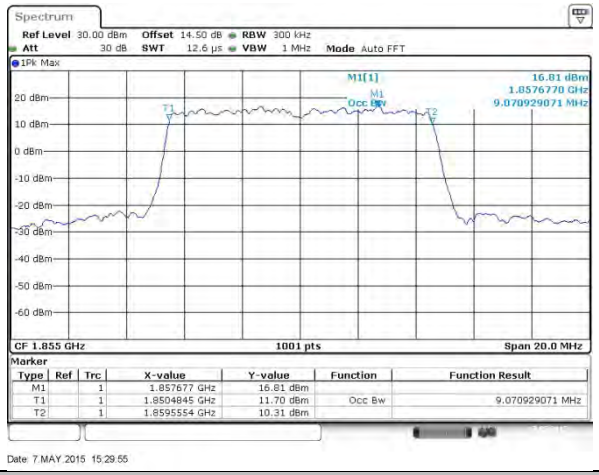


Highest Channel / 5MHz / 16QAM

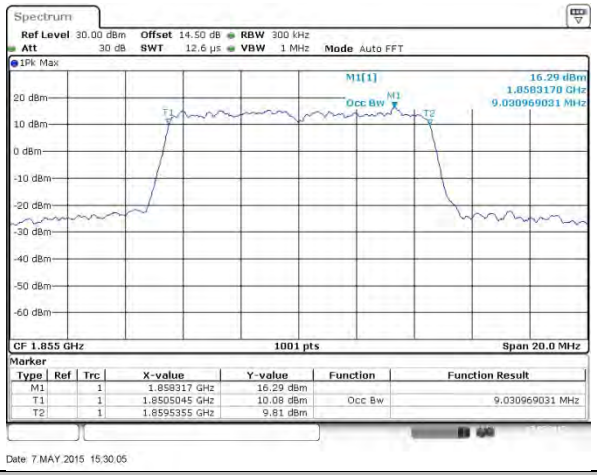


LTE Band 25

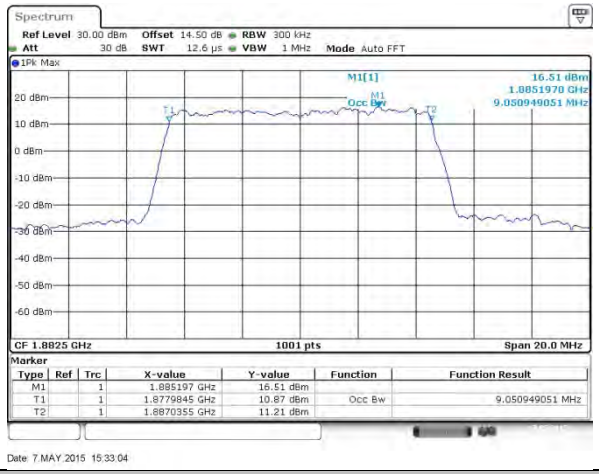
Lowest Channel / 10MHz / QPSK



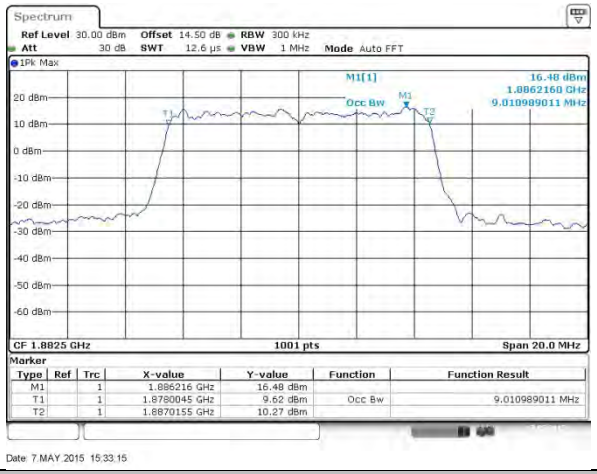
Lowest Channel / 10MHz / 16QAM



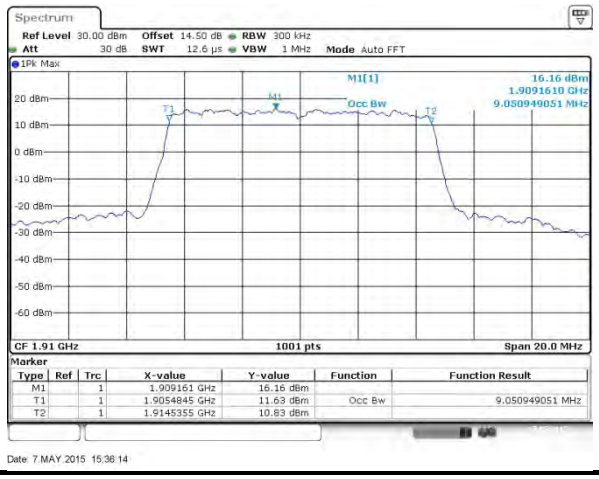
Middle Channel / 10MHz / QPSK



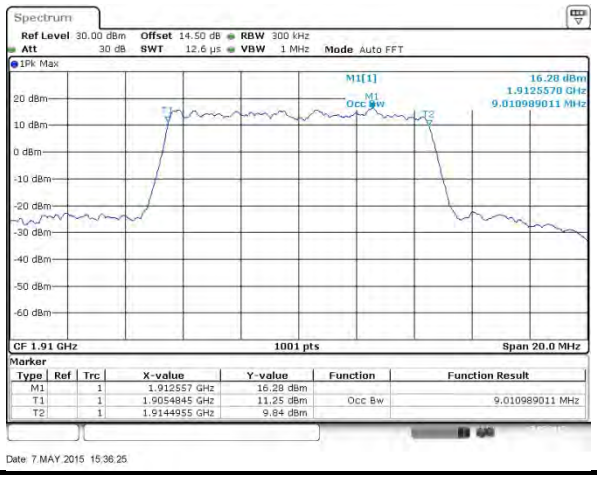
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

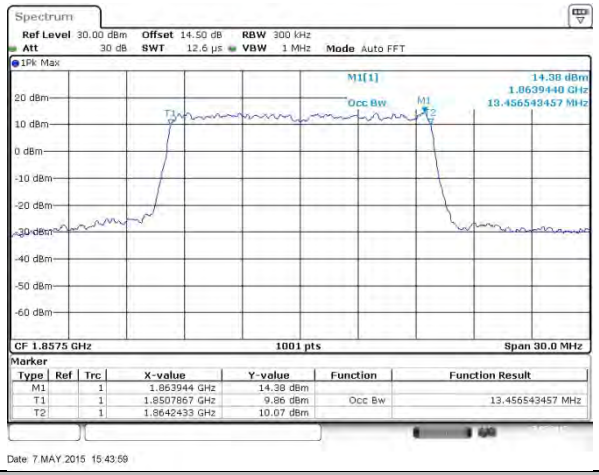


Highest Channel / 10MHz / 16QAM

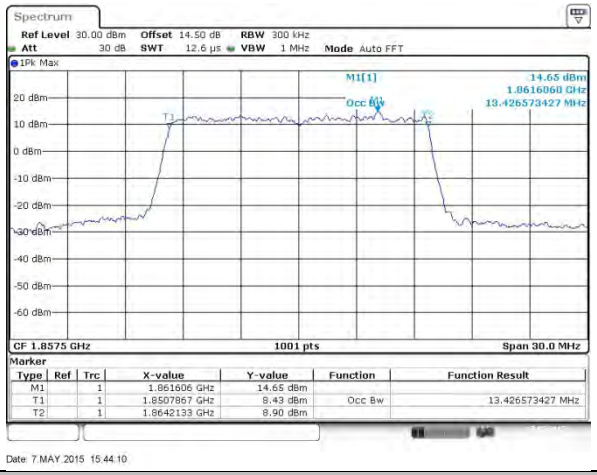


LTE Band 25

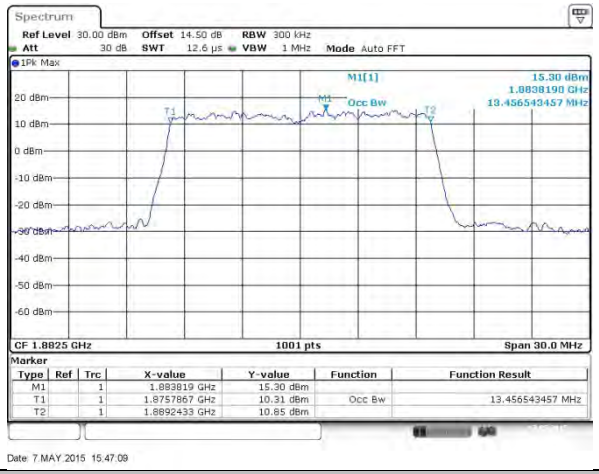
Lowest Channel / 15MHz / QPSK



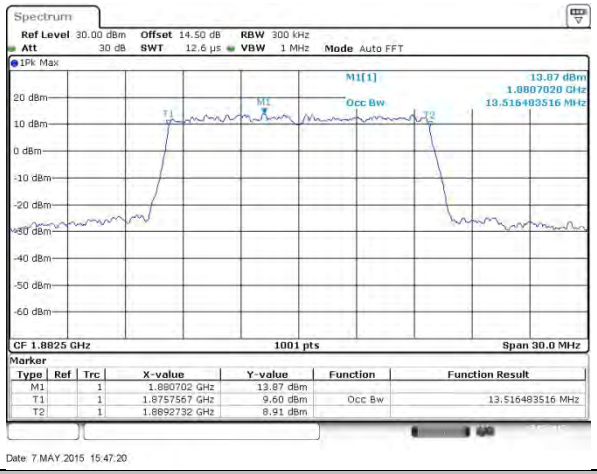
Lowest Channel / 15MHz / 16QAM



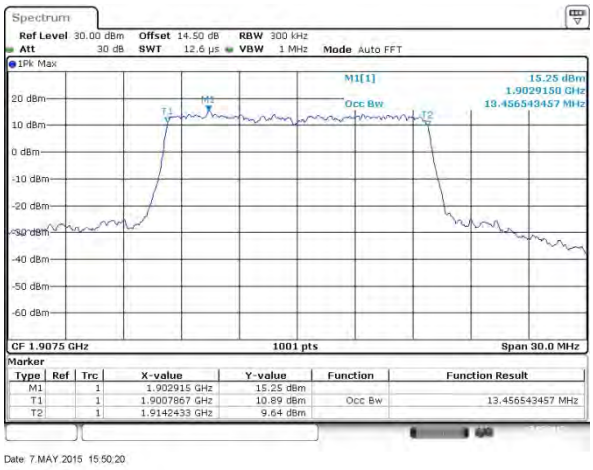
Middle Channel / 15MHz / QPSK



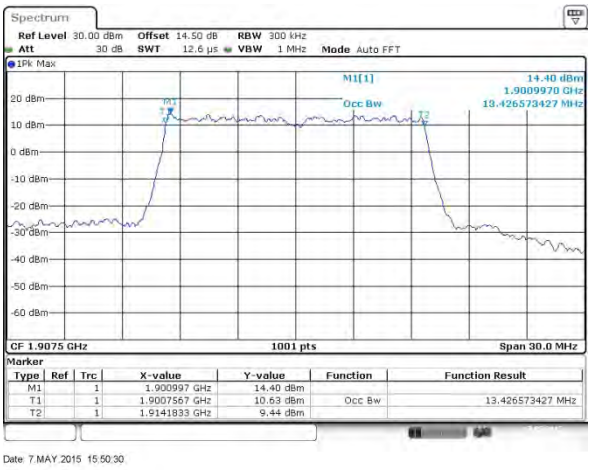
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

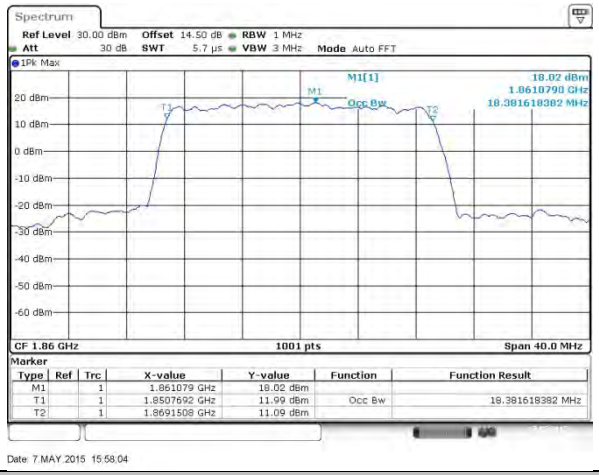


Highest Channel / 15MHz / 16QAM

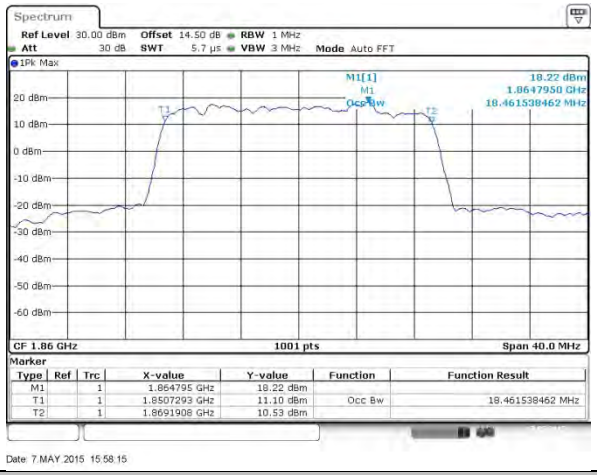


LTE Band 25

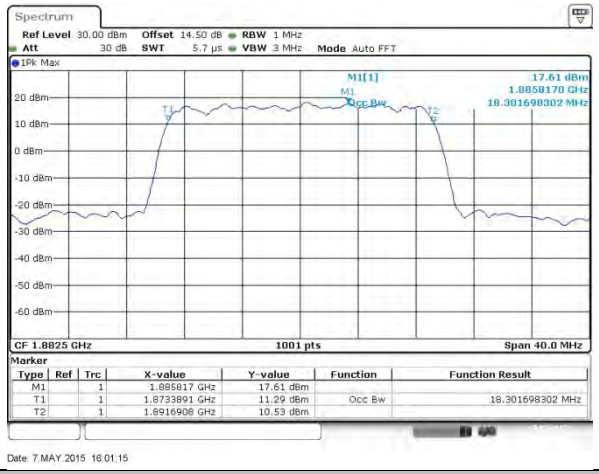
Lowest Channel / 20MHz / QPSK



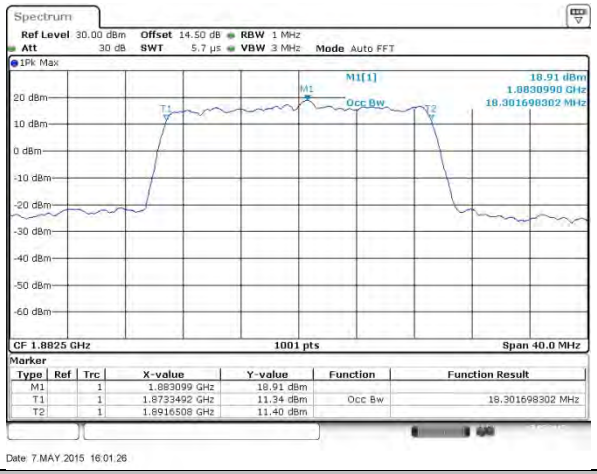
Lowest Channel / 20MHz / 16QAM



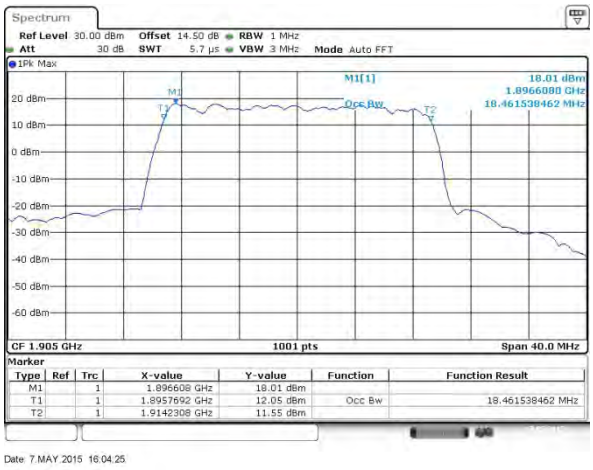
Middle Channel / 20MHz / QPSK



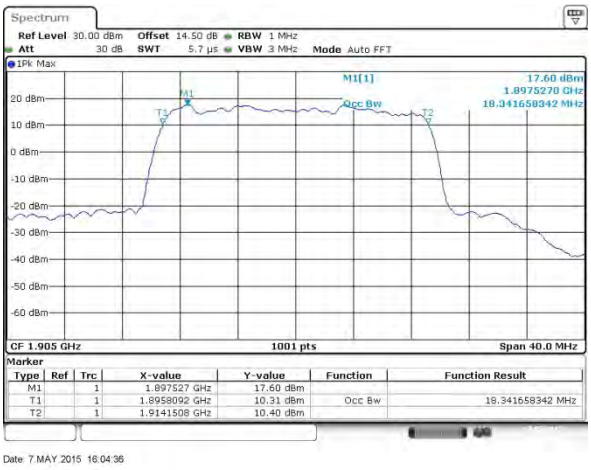
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

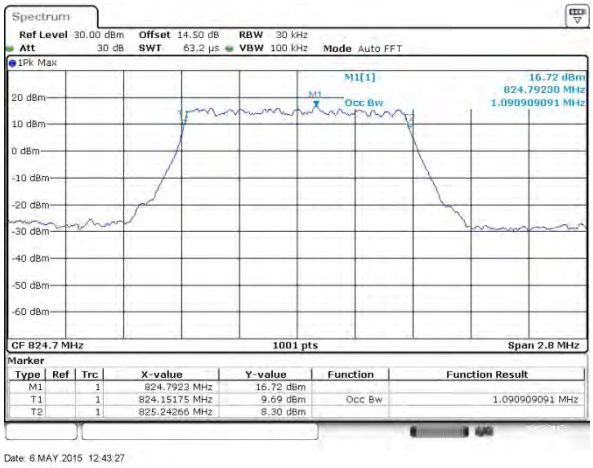


Highest Channel / 20MHz / 16QAM

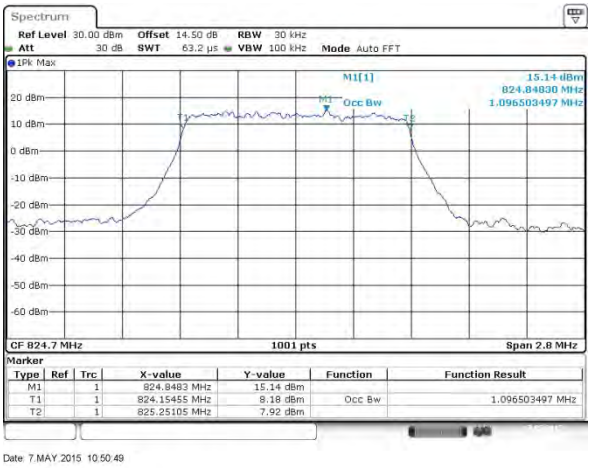


LTE Band 26

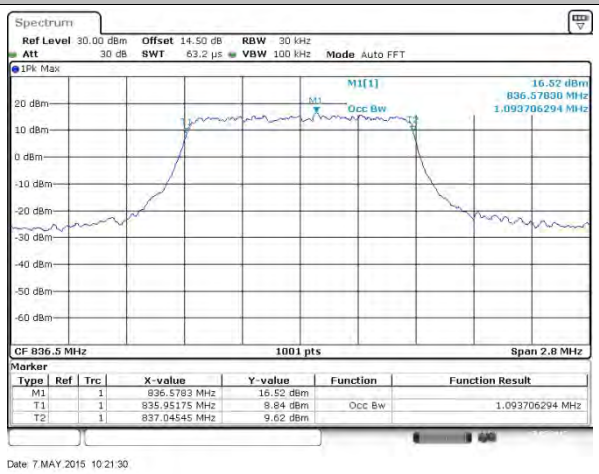
Lowest Channel / 1.4MHz / QPSK



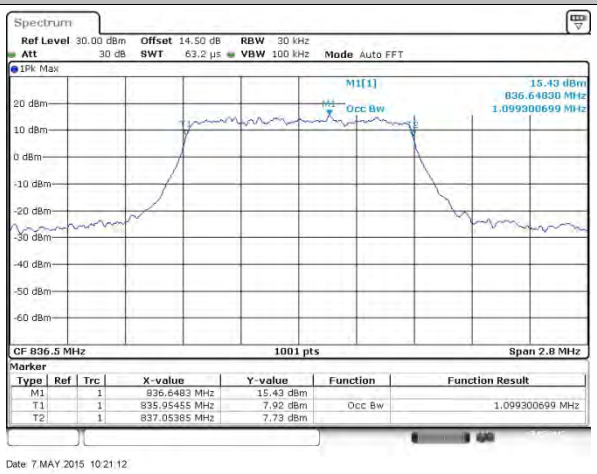
Lowest Channel / 1.4MHz / 16QAM



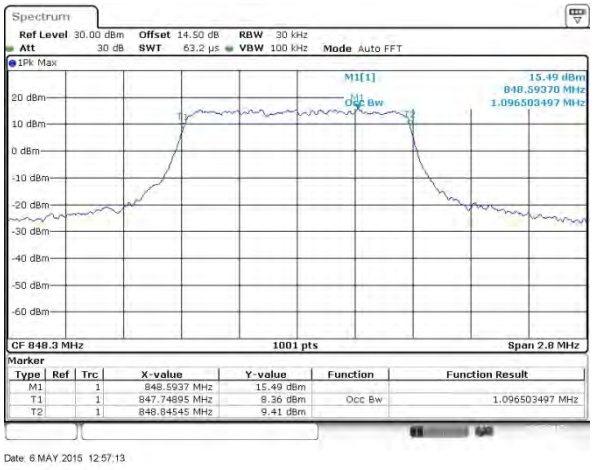
Middle Channel / 1.4MHz / QPSK



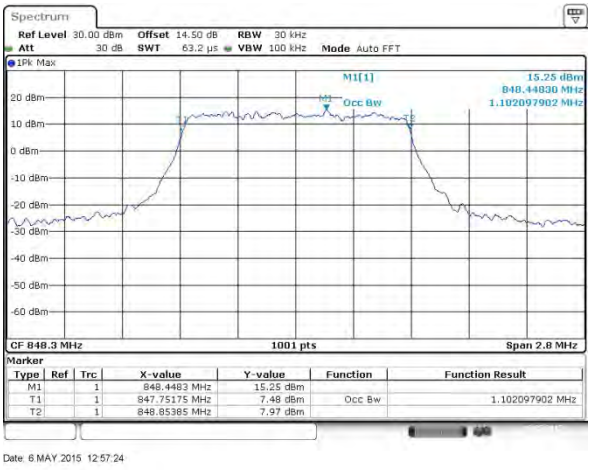
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

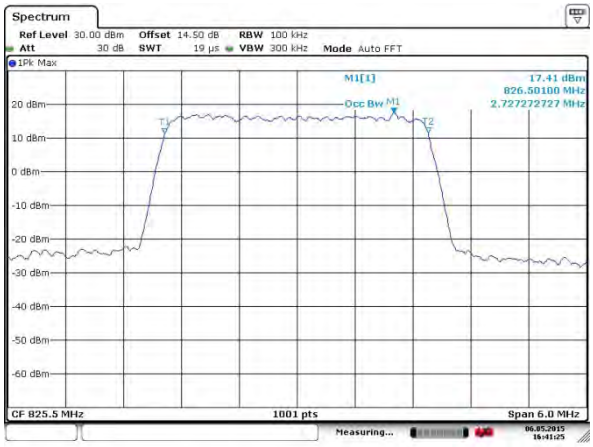


Highest Channel / 1.4MHz / 16QAM

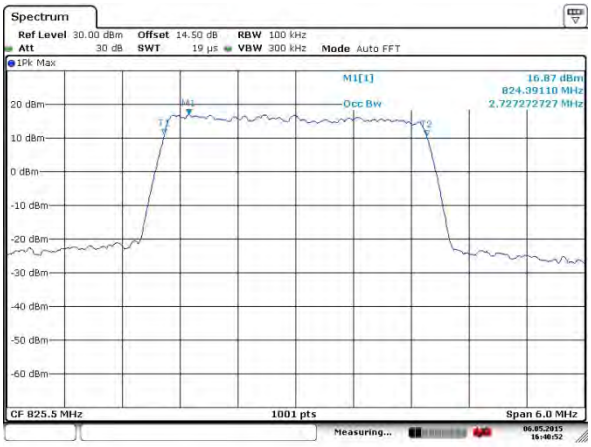


LTE Band 26

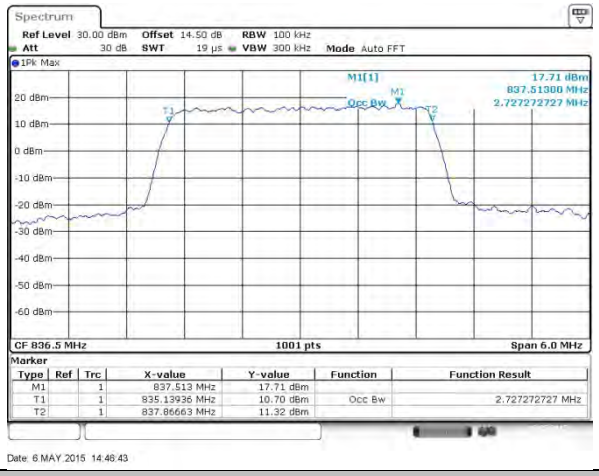
Lowest Channel / 3MHz / QPSK



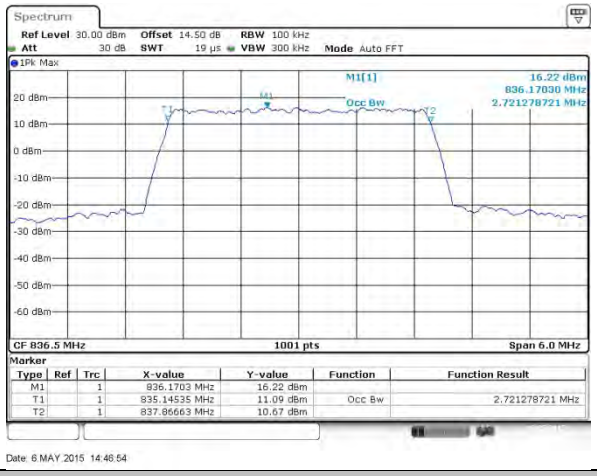
Lowest Channel / 3MHz / 16QAM



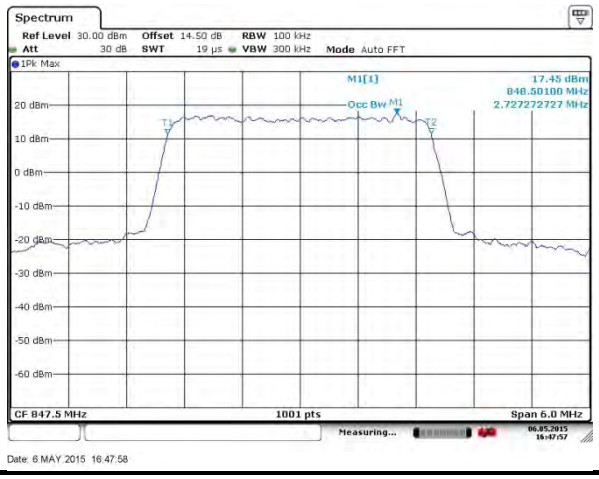
Middle Channel / 3MHz / QPSK



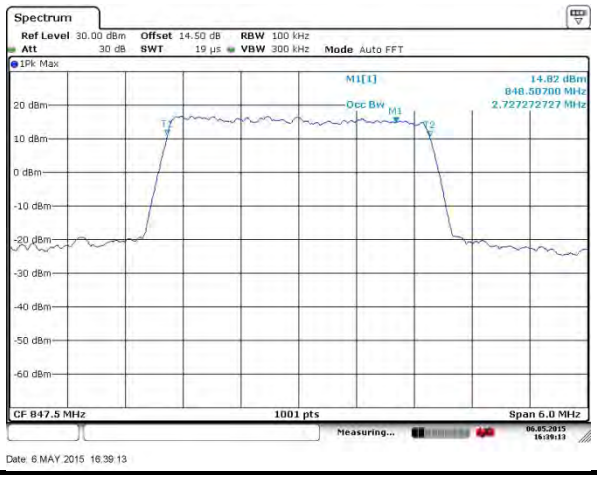
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

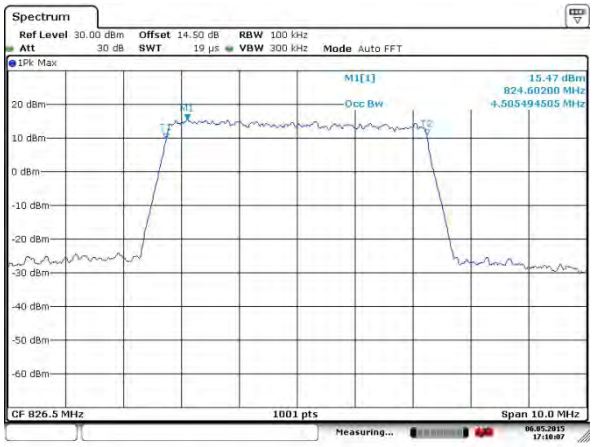


Highest Channel / 3MHz / 16QAM

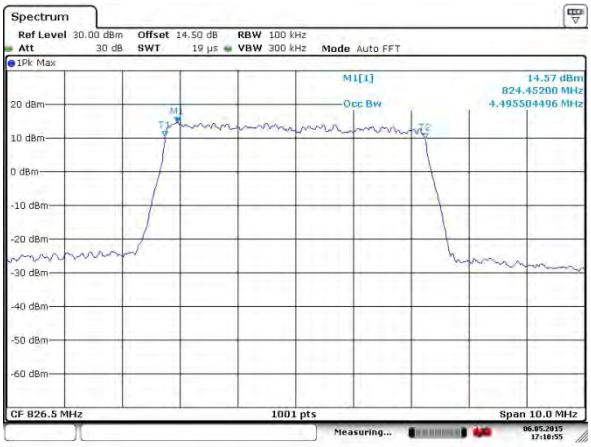


LTE Band 26

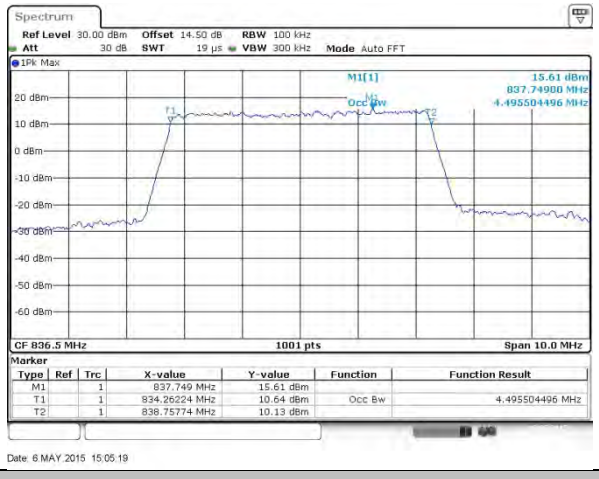
Lowest Channel / 5MHz / QPSK



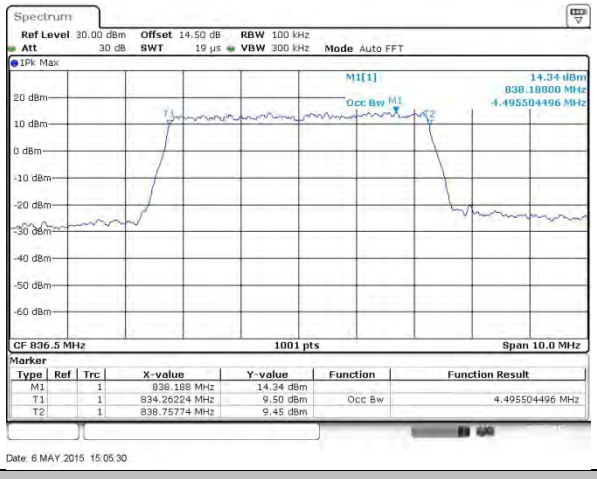
Lowest Channel / 5MHz / 16QAM



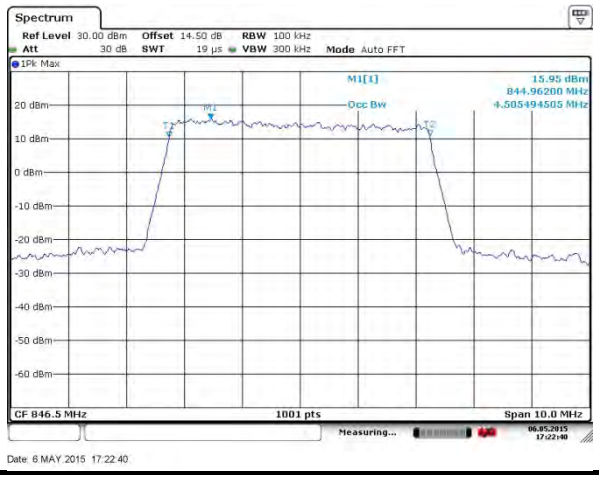
Middle Channel / 5MHz / QPSK



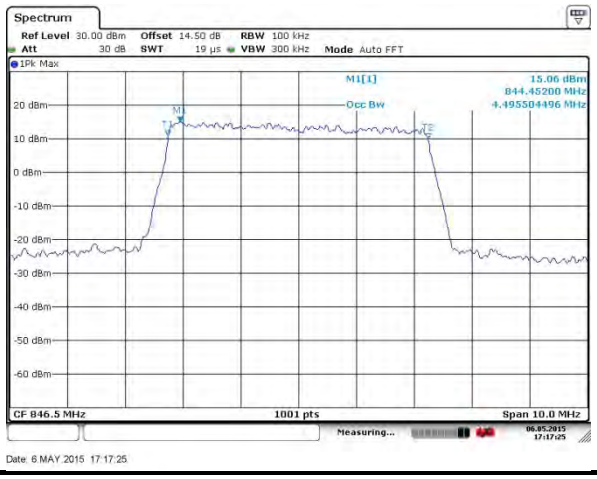
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

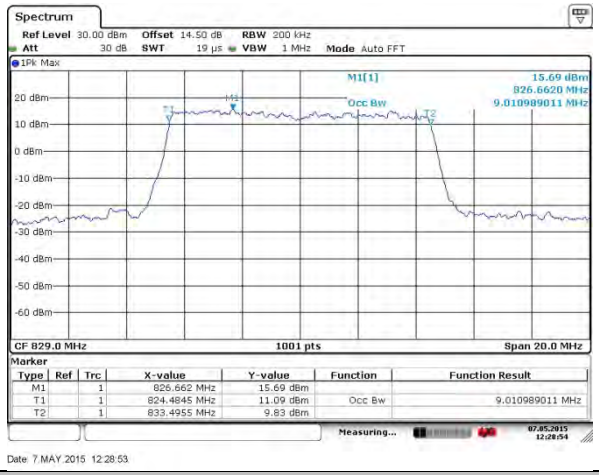


Highest Channel / 5MHz / 16QAM

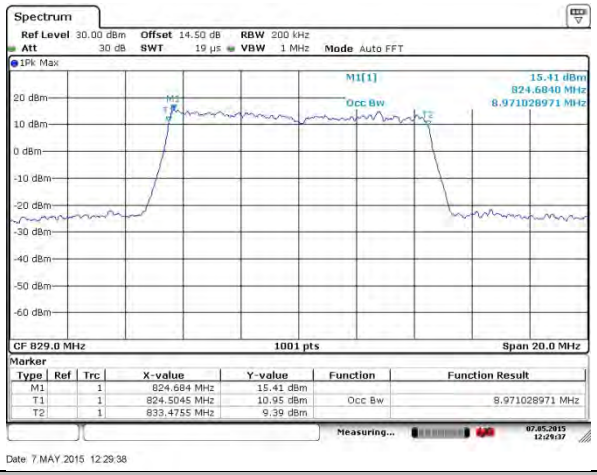


LTE Band 26

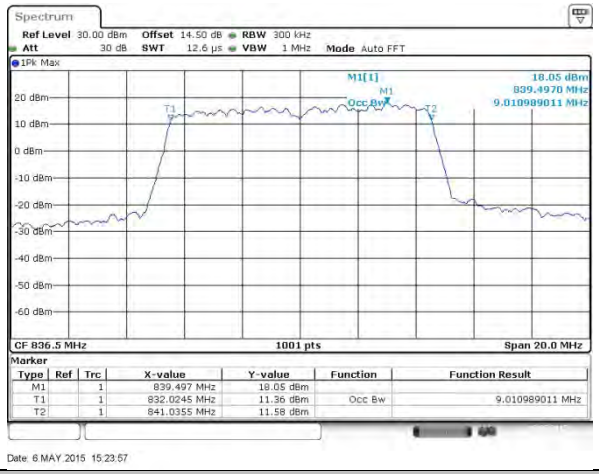
Lowest Channel / 10MHz / QPSK



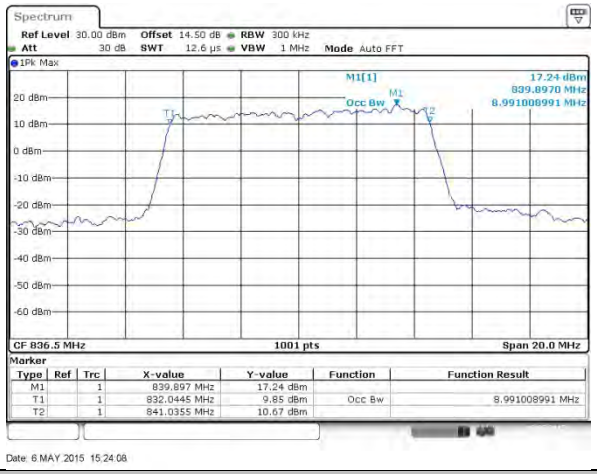
Lowest Channel / 10MHz / 16QAM



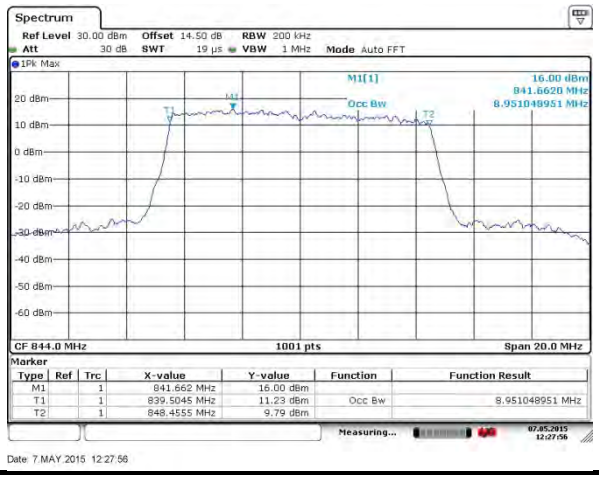
Middle Channel / 10MHz / QPSK



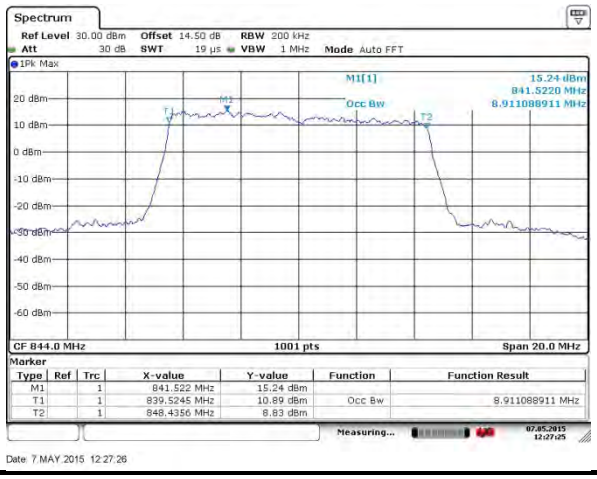
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

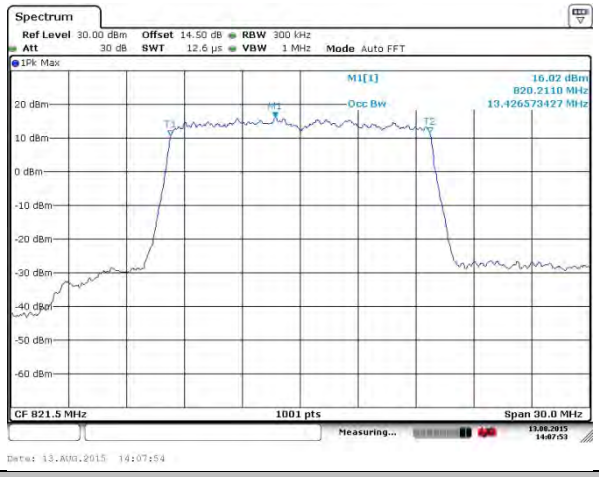


Highest Channel / 10MHz / 16QAM

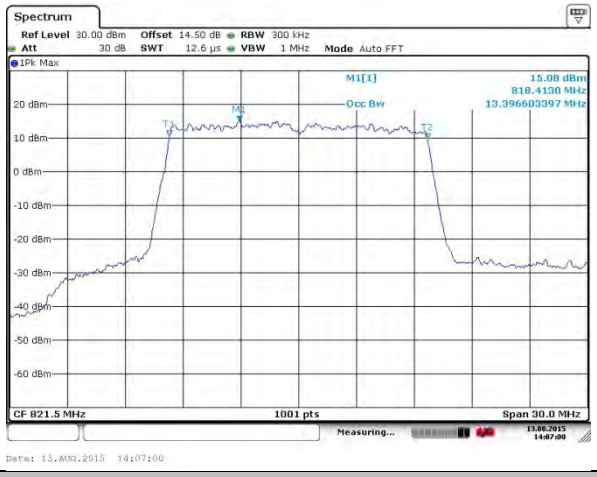


LTE Band 26

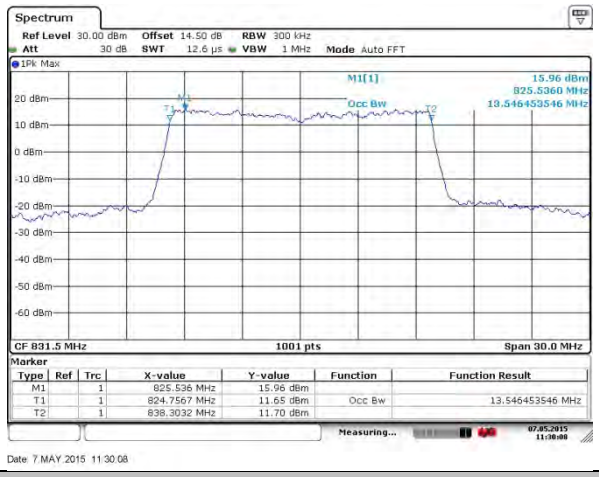
Channel 26765 / 15MHz / QPSK



Channel 26765 / 15MHz / 16QAM



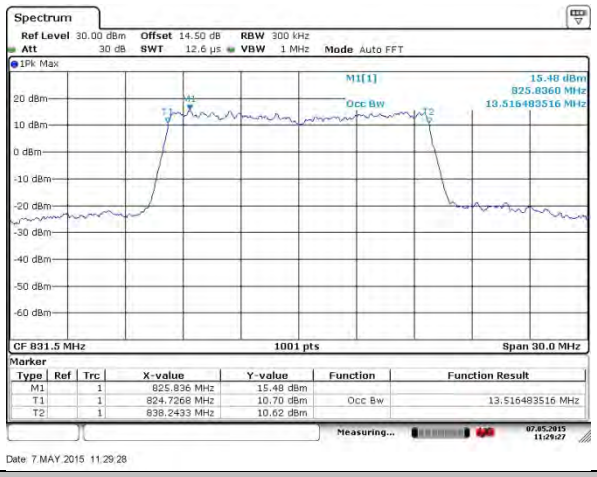
Lowest Channel / 15MHz / QPSK



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	825.536 MHz	15.96 dBm		
T1		1	824.7567 MHz	11.65 dBm	Occ Bw	13.546453546 MHz
T2		1	838.3032 MHz	11.70 dBm		

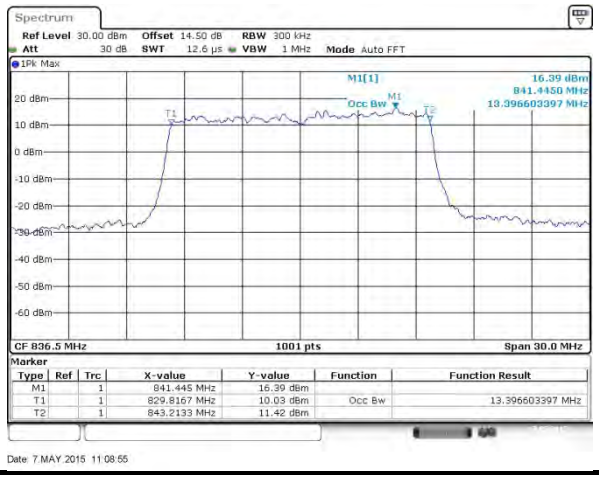
Lowest Channel / 15MHz / 16QAM



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	825.836 MHz	15.48 dBm		
T1		1	824.7268 MHz	10.70 dBm	Occ Bw	13.516483516 MHz
T2		1	838.2433 MHz	10.62 dBm		

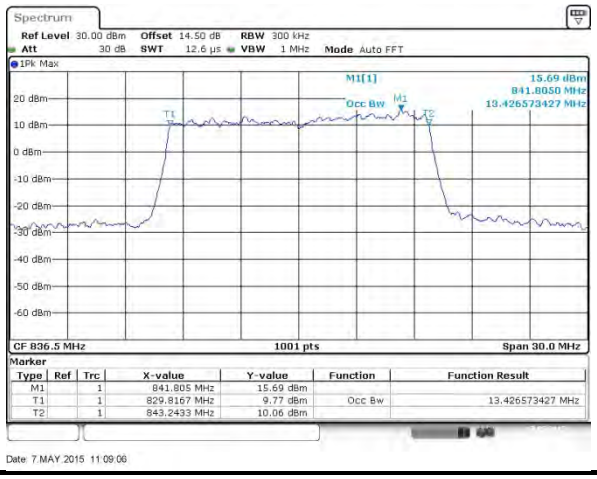
Middle Channel / 15MHz / QPSK



Marker

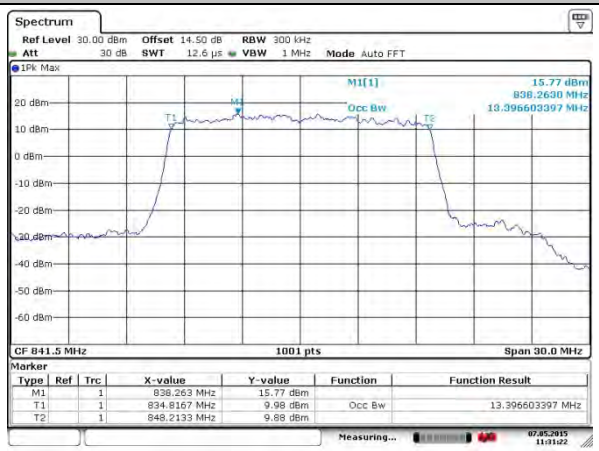
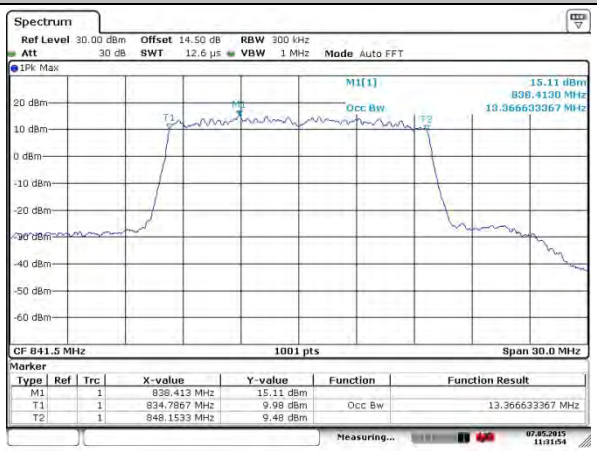
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	841.445 MHz	16.39 dBm		
T1		1	829.8167 MHz	10.03 dBm	Occ Bw	13.396603397 MHz
T2		1	843.2133 MHz	11.42 dBm		

Middle Channel / 15MHz / 16QAM



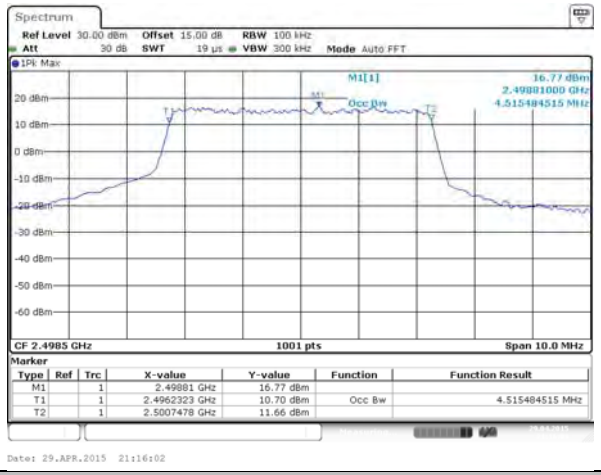
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	841.805 MHz	15.69 dBm		
T1		1	829.8167 MHz	9.77 dBm	Occ Bw	13.426573427 MHz
T2		1	843.2433 MHz	10.06 dBm		

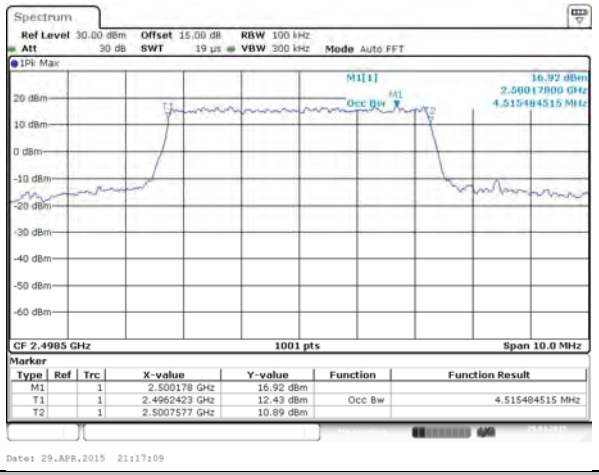
Highest Channel / 15MHz / QPSK	Highest Channel / 15MHz / 16QAM
	

LTE Band 41

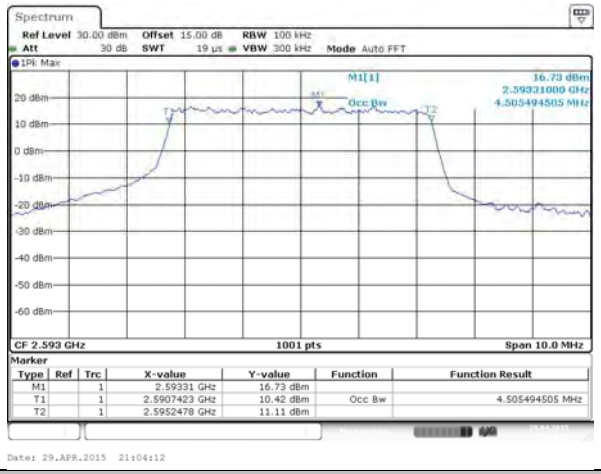
Lowest Channel / 5MHz / QPSK



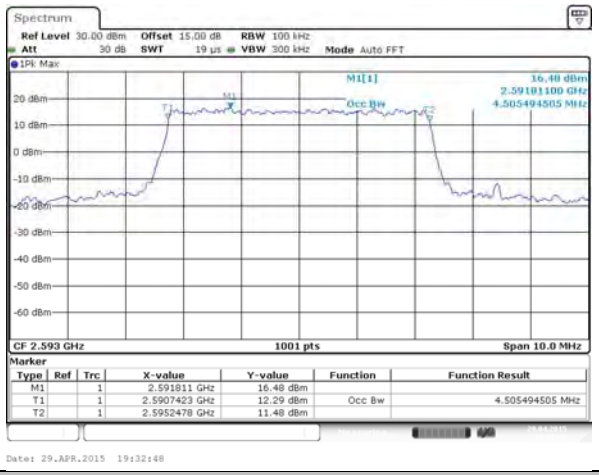
Lowest Channel / 5MHz / 16QAM



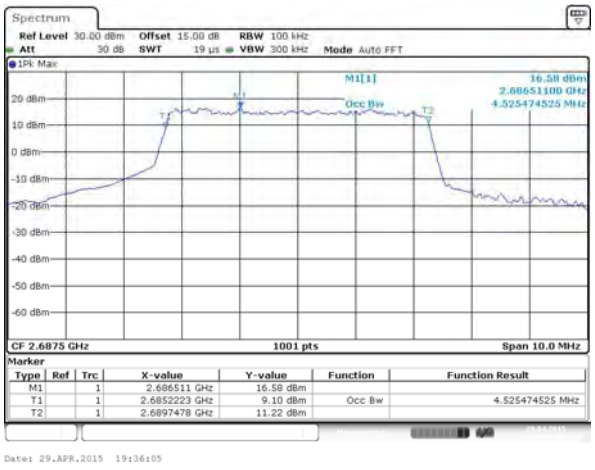
Middle Channel / 5MHz / QPSK



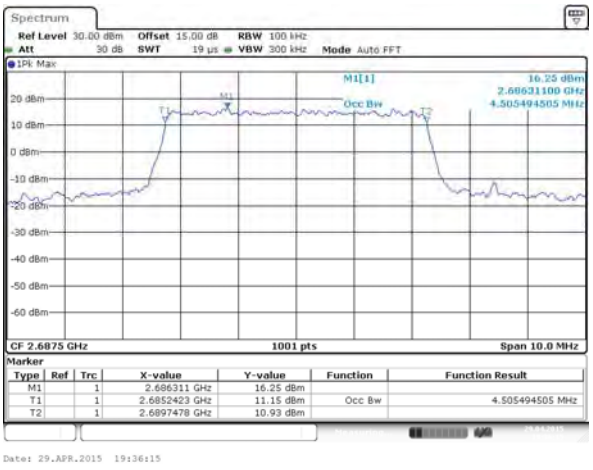
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

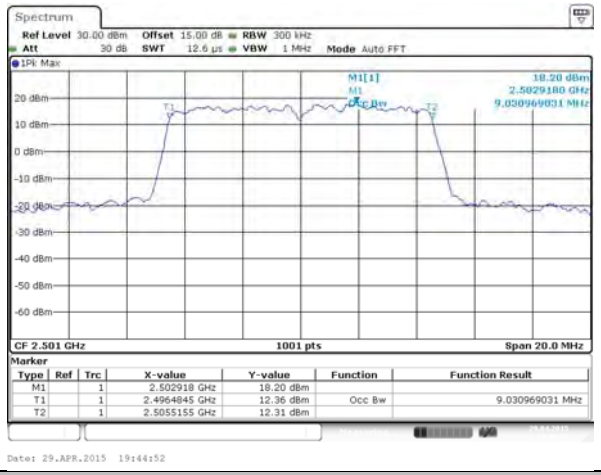


Highest Channel / 5MHz / 16QAM

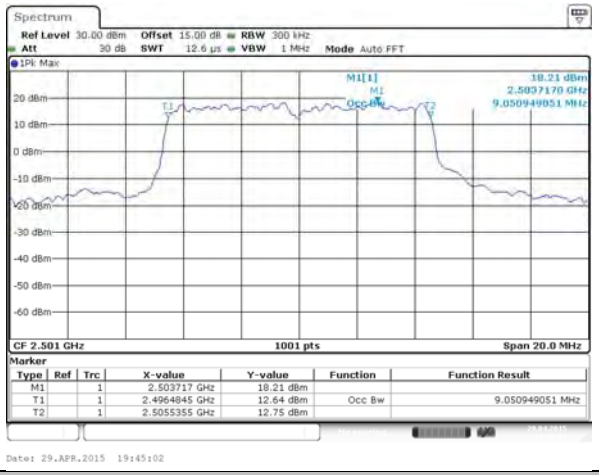


LTE Band 41

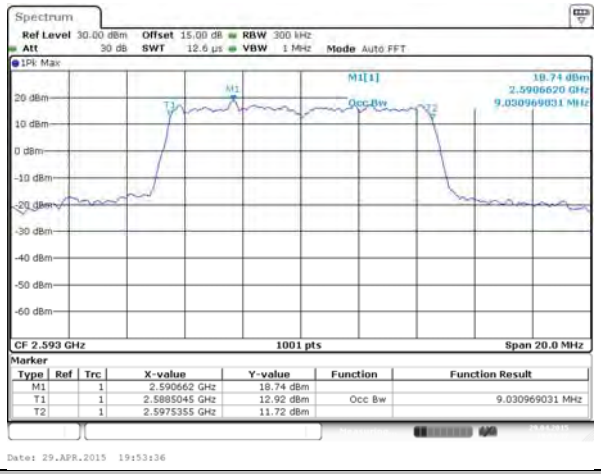
Lowest Channel / 10MHz / QPSK



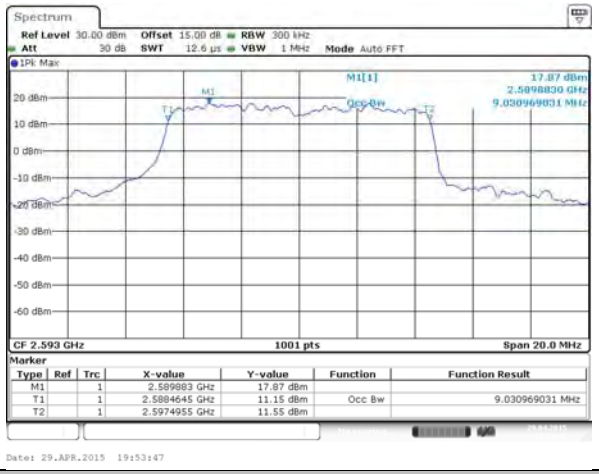
Lowest Channel / 10MHz / 16QAM



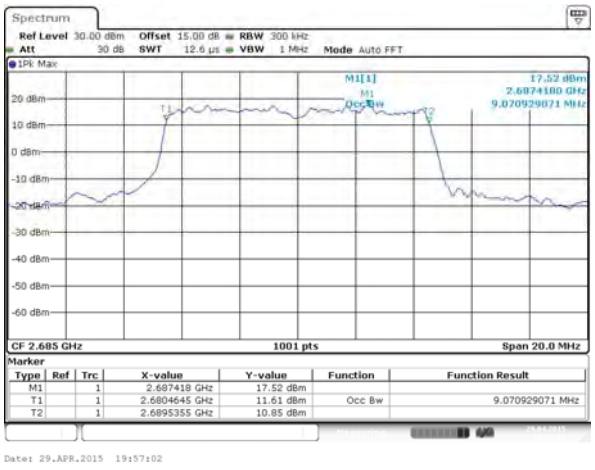
Middle Channel / 10MHz / QPSK



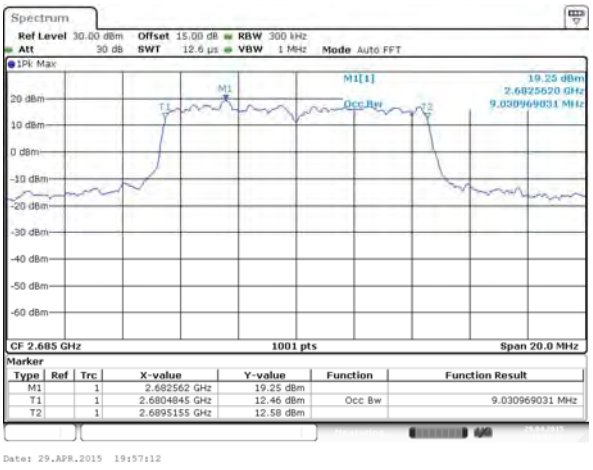
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

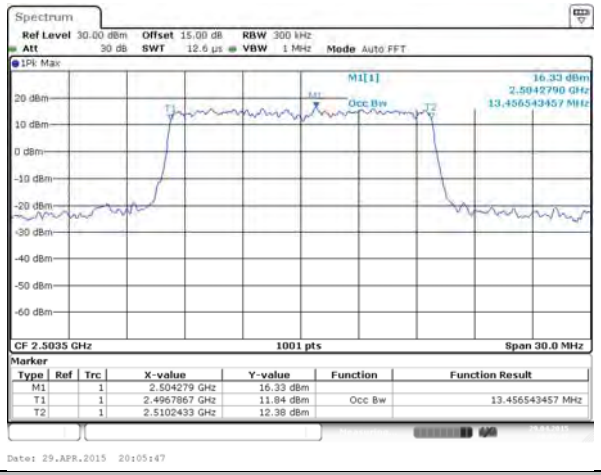


Highest Channel / 10MHz / 16QAM

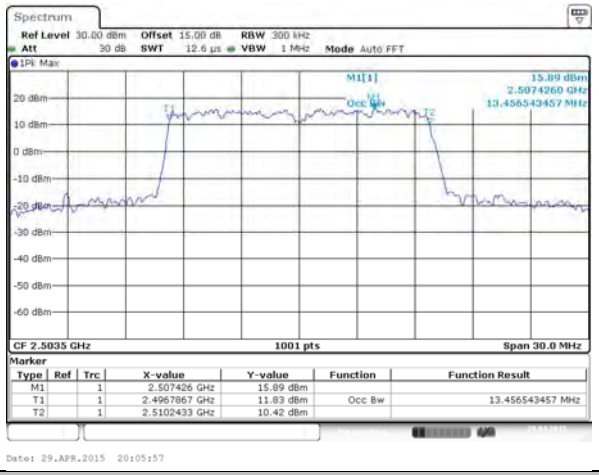


LTE Band 41

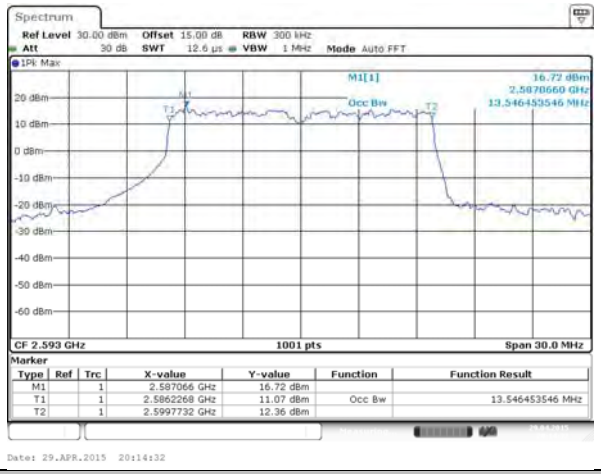
Lowest Channel / 15MHz / QPSK



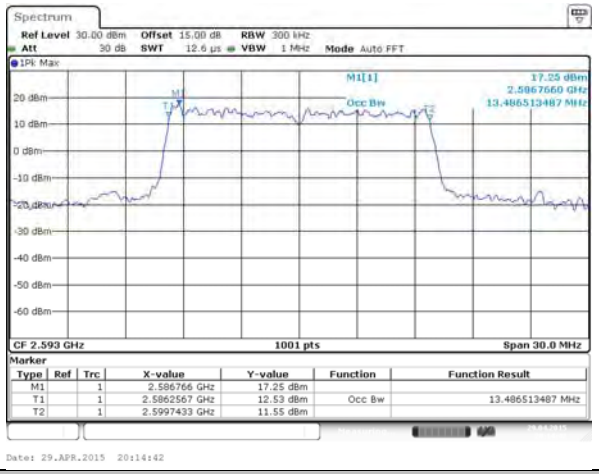
Lowest Channel / 15MHz / 16QAM



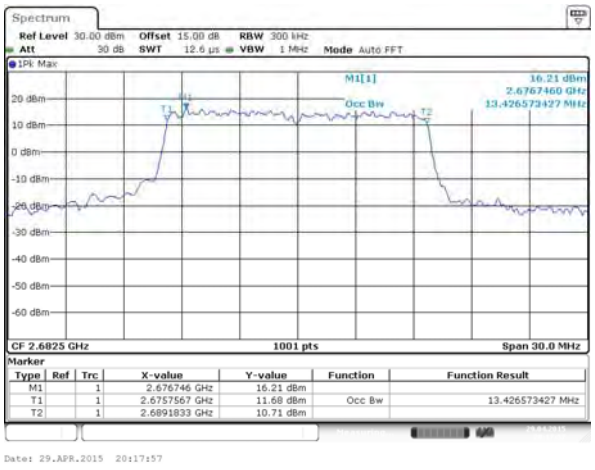
Middle Channel / 15MHz / QPSK



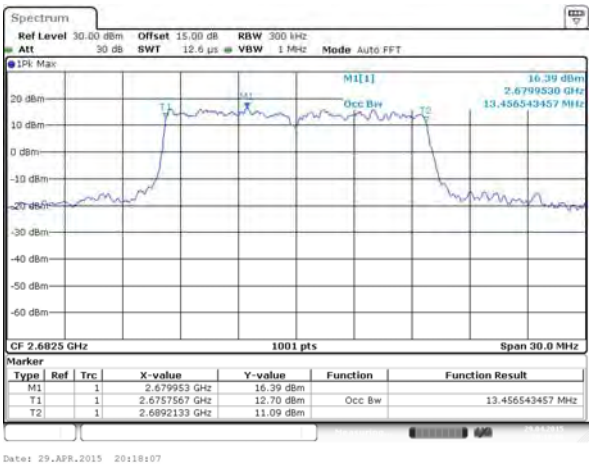
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

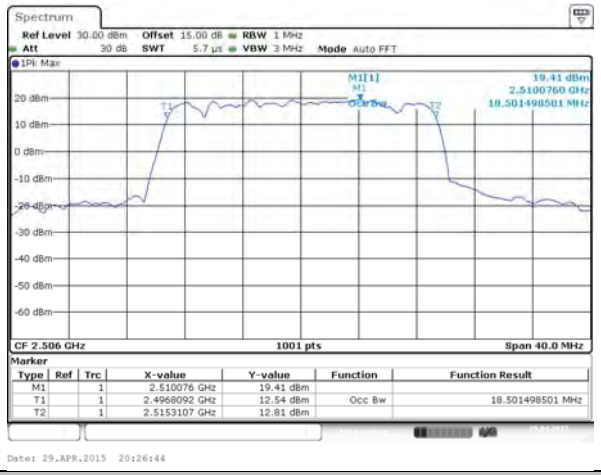


Highest Channel / 15MHz / 16QAM

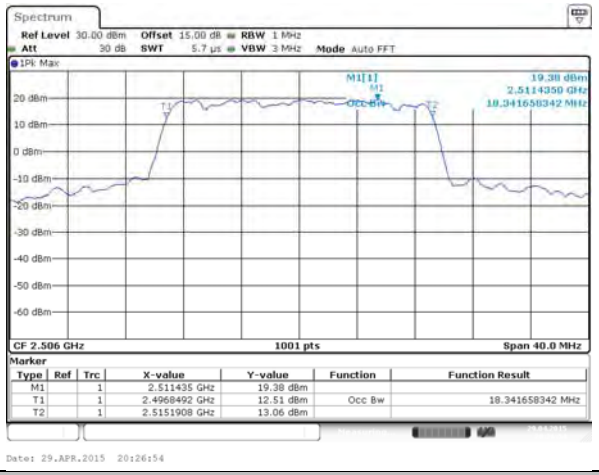


LTE Band 41

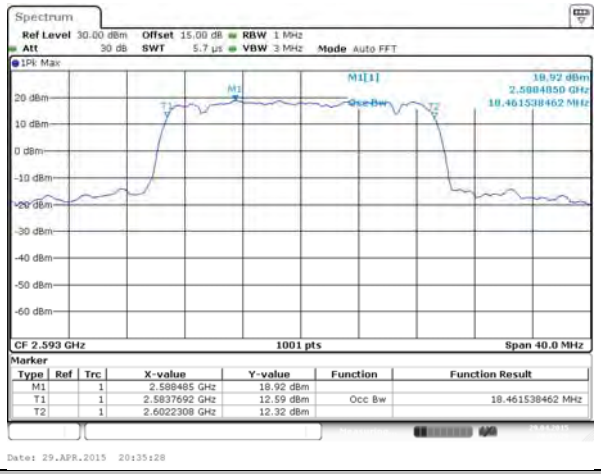
Lowest Channel / 20MHz / QPSK



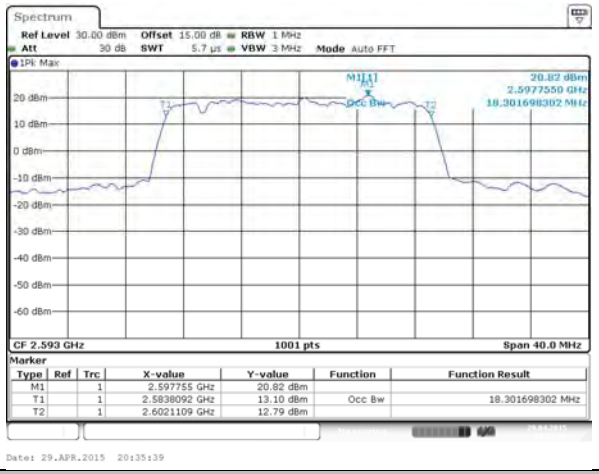
Lowest Channel / 20MHz / 16QAM



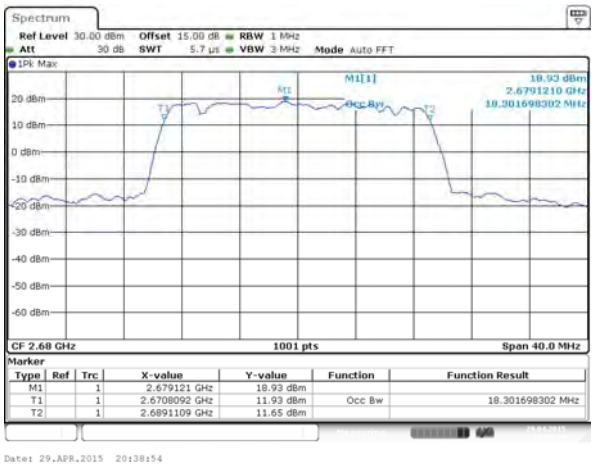
Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

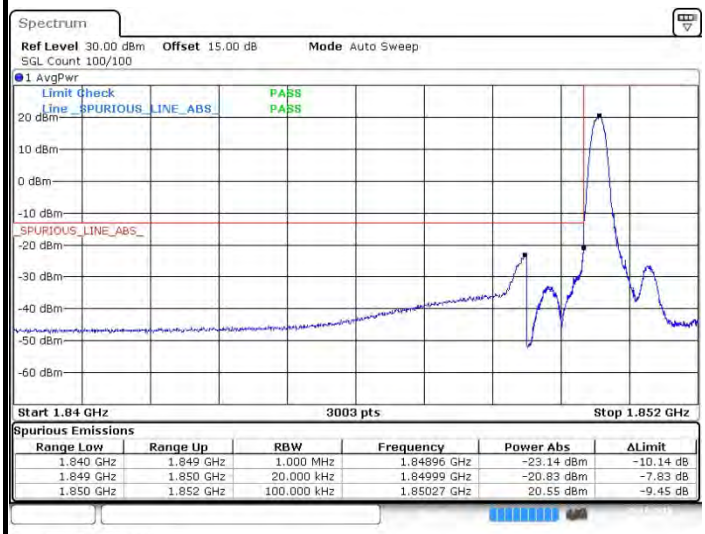


Highest Channel / 20MHz / 16QAM

Conducted Band Edge

LTE Band 25 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84896 GHz	-23.14 dBm	-10.14 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.84999 GHz	-20.83 dBm	-7.83 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85027 GHz	20.55 dBm	-9.45 dB

Date: 28.JUL.2015 11:00:40

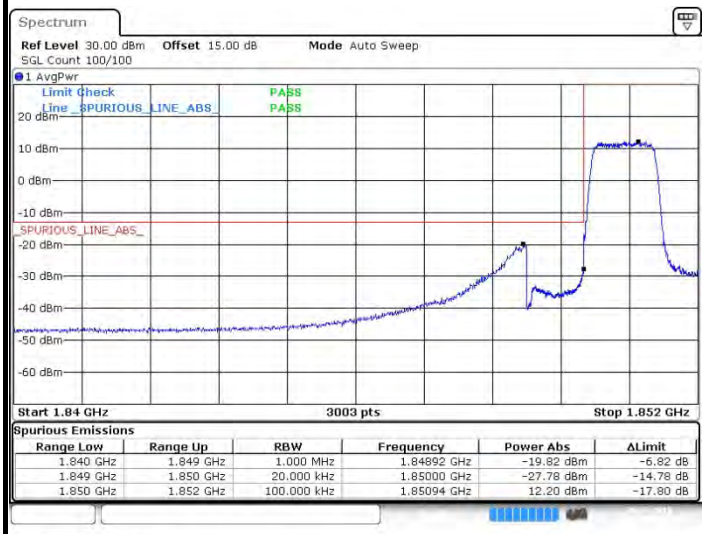
Highest Band Edge / 1RB

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.913 GHz	1.915 GHz	100.000 kHz	1.91476 GHz	20.07 dBm	-9.93 dB
1.915 GHz	1.916 GHz	20.000 kHz	1.91500 GHz	-22.83 dBm	-9.83 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91601 GHz	-19.13 dBm	-6.13 dB

Date: 7.MAY.2015 14:55:45

Lowest Band Edge / Full RB

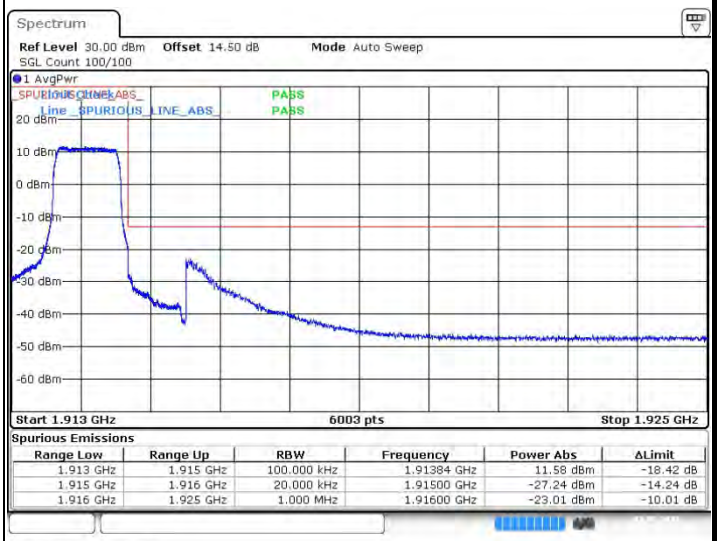


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84892 GHz	-19.82 dBm	-6.82 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-27.78 dBm	-14.78 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85094 GHz	12.20 dBm	-17.80 dB

Date: 28.JUL.2015 10:49:30

Highest Band Edge / Full RB



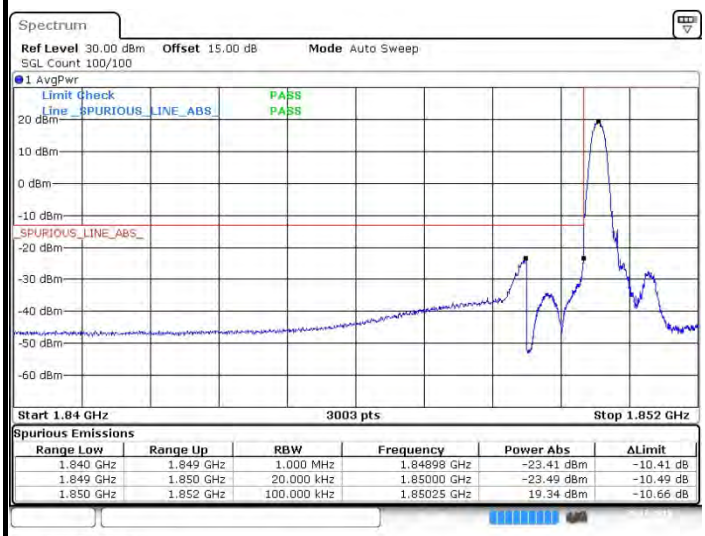
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.913 GHz	1.915 GHz	100.000 kHz	1.91384 GHz	11.58 dBm	-18.42 dB
1.915 GHz	1.916 GHz	20.000 kHz	1.91500 GHz	-27.24 dBm	-14.24 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91600 GHz	-23.01 dBm	-10.01 dB

Date: 7.MAY.2015 14:58:03

LTE Band 25 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

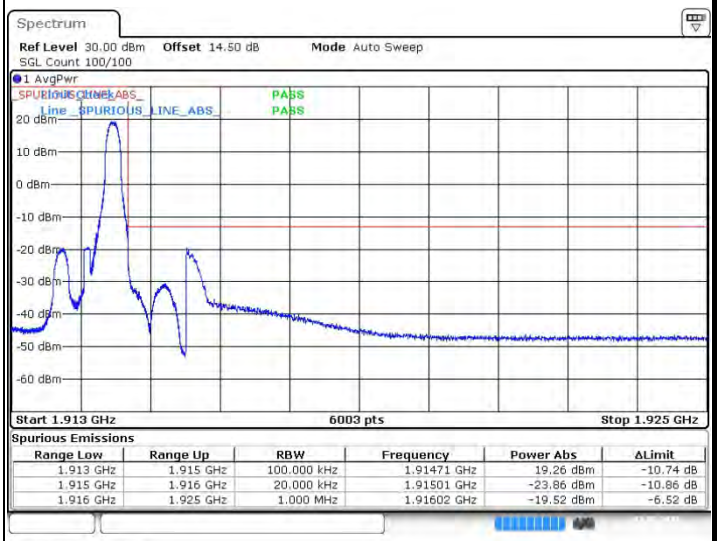


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-23.41 dBm	-10.41 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-23.49 dBm	-10.49 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85025 GHz	19.34 dBm	-10.66 dB

Date: 28.JUL.2015 11:02:01

Highest Band Edge / 1 RB

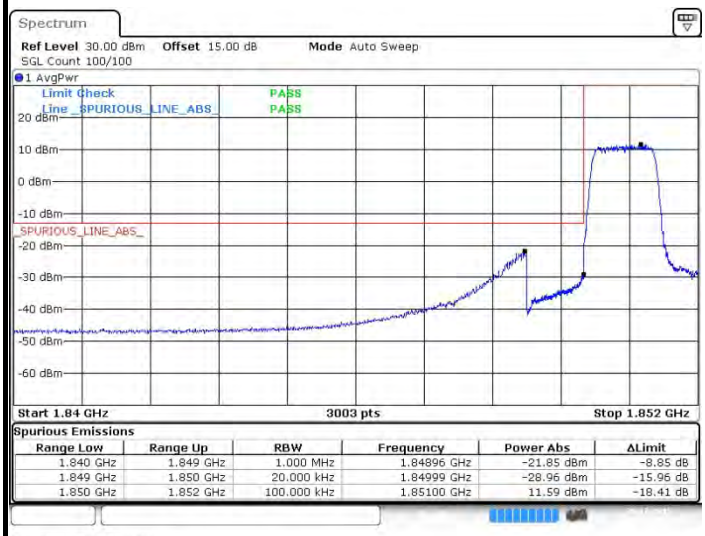


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.913 GHz	1.915 GHz	100.000 kHz	1.91471 GHz	19.26 dBm	-10.74 dB
1.915 GHz	1.916 GHz	20.000 kHz	1.91501 GHz	-23.86 dBm	-10.86 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91602 GHz	-19.52 dBm	-6.52 dB

Date: 7.MAY.2015 14:56:54

Lowest Band Edge / Full RB

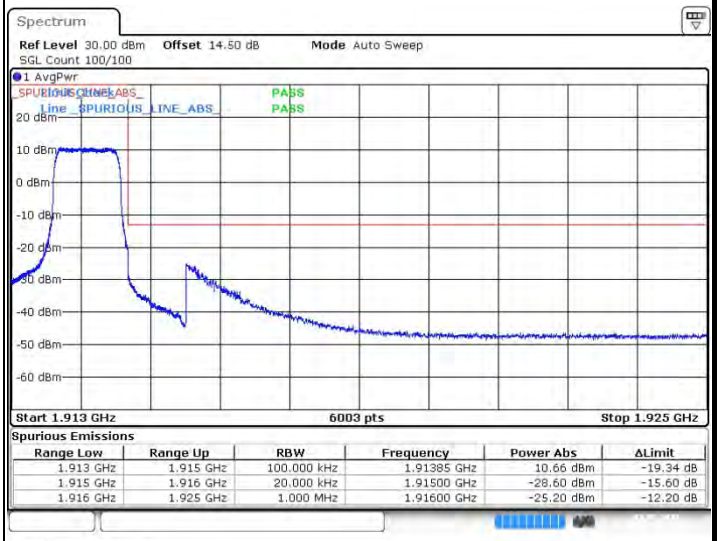


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84896 GHz	-21.85 dBm	-8.85 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.84999 GHz	-28.96 dBm	-15.96 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85100 GHz	11.59 dBm	-18.41 dB

Date: 28.JUL.2015 11:18:35

Highest Band Edge / Full RB



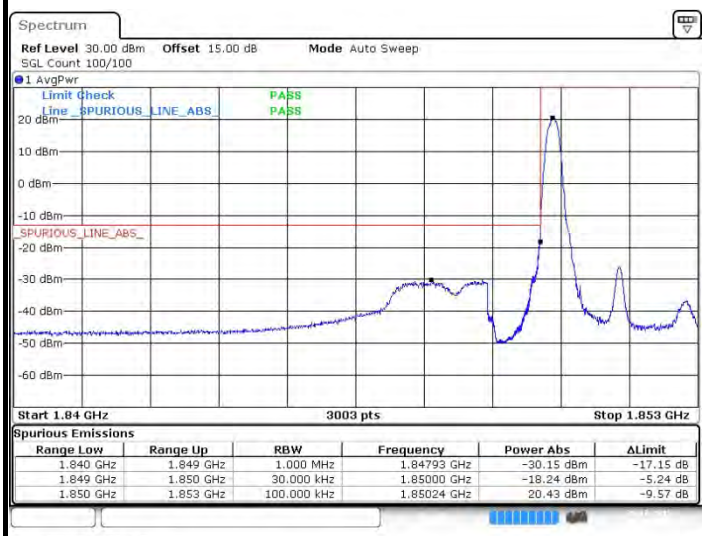
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.913 GHz	1.915 GHz	100.000 kHz	1.91385 GHz	10.66 dBm	-19.34 dB
1.915 GHz	1.916 GHz	20.000 kHz	1.91500 GHz	-28.60 dBm	-15.60 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91600 GHz	-25.20 dBm	-12.20 dB

Date: 7.MAY.2015 14:59:11

LTE Band 25 / 3MHz / QPSK

Lowest Band Edge / 1RB

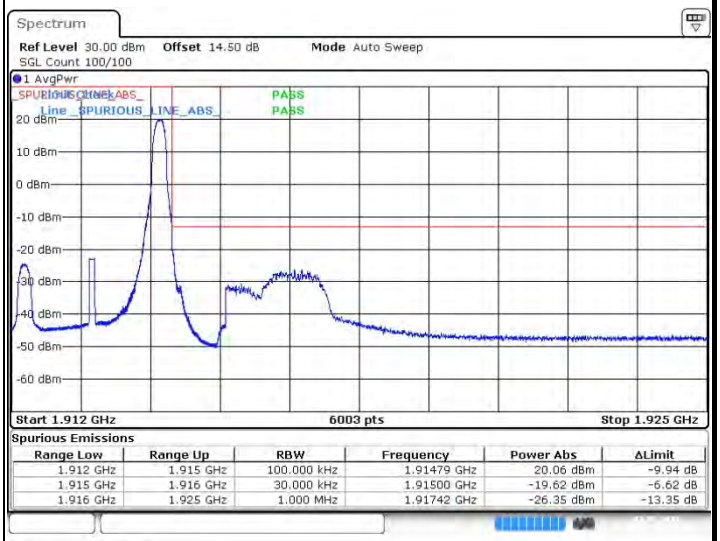


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84793 GHz	-30.15 dBm	-17.15 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-18.24 dBm	-5.24 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85024 GHz	20.43 dBm	-9.57 dB

Date: 28.JUL.2015 11:03:24

Highest Band Edge / 1 RB

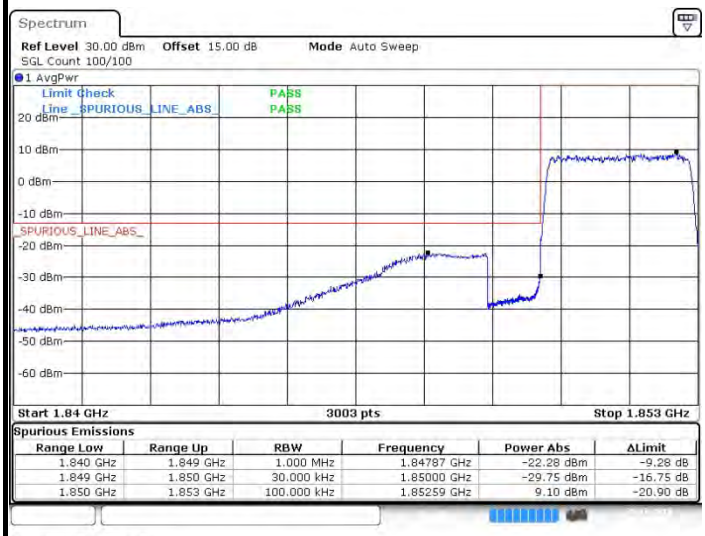


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.912 GHz	1.915 GHz	100.000 kHz	1.91479 GHz	20.06 dBm	-9.94 dB
1.915 GHz	1.916 GHz	30.000 kHz	1.91500 GHz	-19.62 dBm	-6.62 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91742 GHz	-26.35 dBm	-13.35 dB

Date: 7.MAY.2015 15:09:50

Lowest Band Edge / Full RB

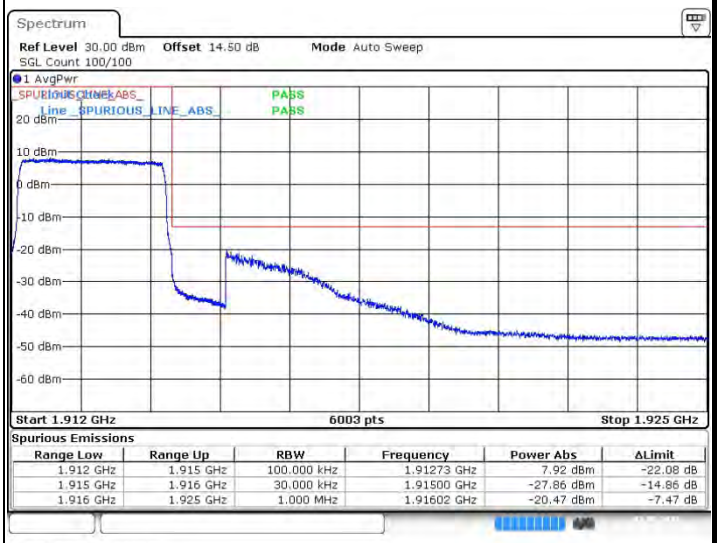


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84787 GHz	-22.28 dBm	-9.28 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-29.75 dBm	-16.75 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85259 GHz	9.10 dBm	-20.90 dB

Date: 28.JUL.2015 11:04:31

Highest Band Edge / Full RB



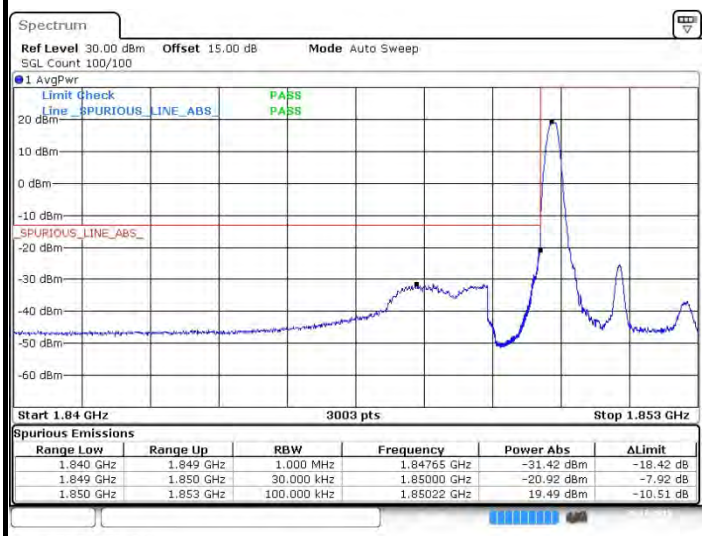
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.912 GHz	1.915 GHz	100.000 kHz	1.91273 GHz	7.92 dBm	-22.08 dB
1.915 GHz	1.916 GHz	30.000 kHz	1.91500 GHz	-27.86 dBm	-14.86 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91602 GHz	-20.47 dBm	-7.47 dB

Date: 7.MAY.2015 15:12:07

LTE Band 25 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

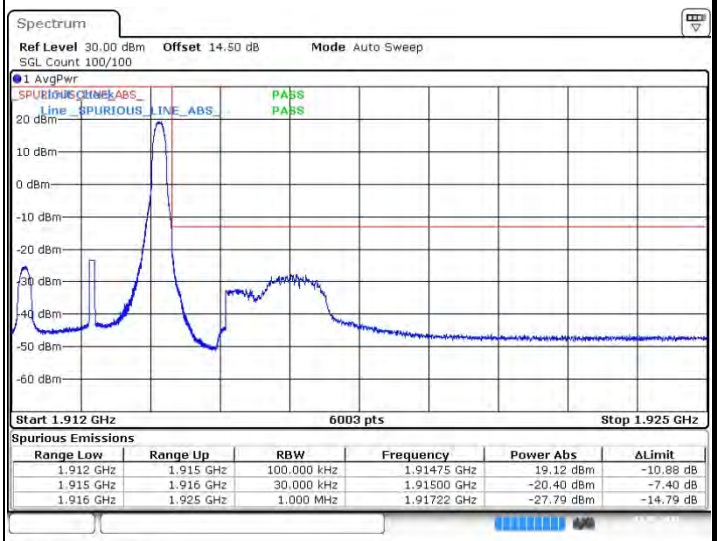


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84765 GHz	-31.42 dBm	-18.42 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-20.92 dBm	-7.92 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85022 GHz	19.49 dBm	-10.51 dB

Date: 28.JUL.2015 11:02:47

Highest Band Edge /1 RB

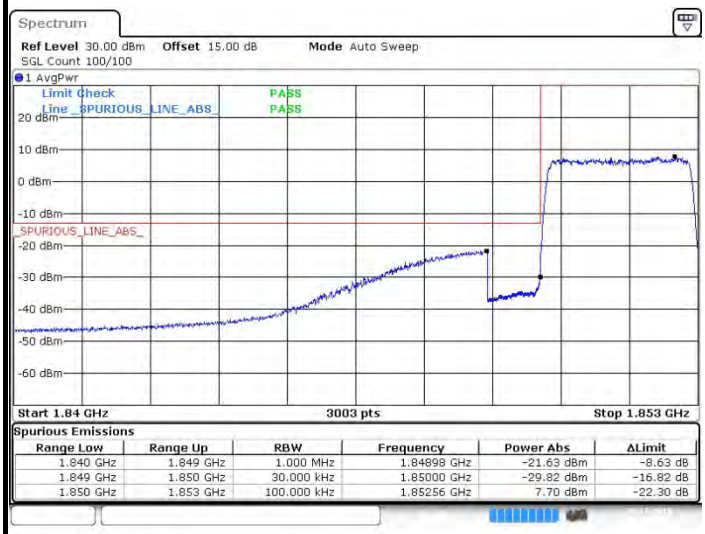


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.912 GHz	1.915 GHz	100.000 kHz	1.91475 GHz	19.12 dBm	-10.88 dB
1.915 GHz	1.916 GHz	30.000 kHz	1.91500 GHz	-20.40 dBm	-7.40 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91722 GHz	-27.79 dBm	-14.79 dB

Date: 7.MAY.2015 15:10:58

Lowest Band Edge / Full RB

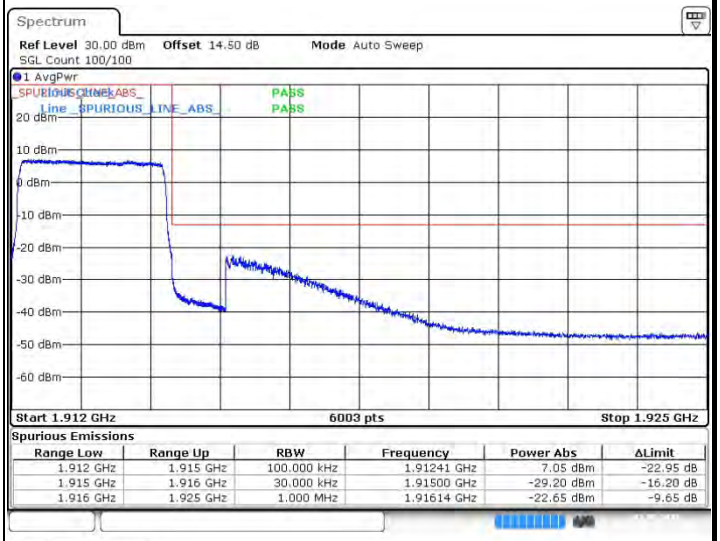


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-21.63 dBm	-8.63 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-29.82 dBm	-16.82 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85256 GHz	7.70 dBm	-22.30 dB

Date: 28.JUL.2015 11:07:12

Highest Band Edge / Full RB



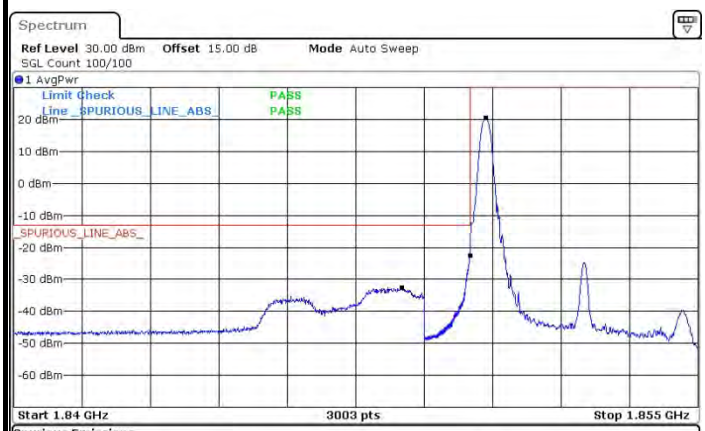
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.912 GHz	1.915 GHz	100.000 kHz	1.91241 GHz	7.05 dBm	-22.95 dB
1.915 GHz	1.916 GHz	30.000 kHz	1.91500 GHz	-29.20 dBm	-16.20 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91614 GHz	-22.65 dBm	-9.65 dB

Date: 7.MAY.2015 15:13:16

LTE Band 25 / 5MHz / QPSK

Lowest Band Edge / 1 RB

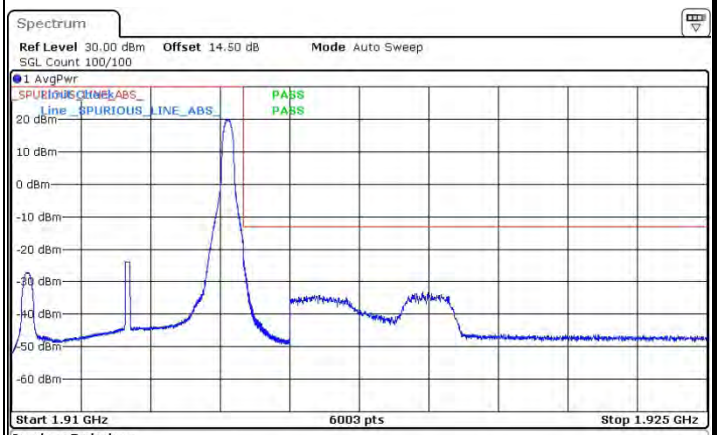


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84850 GHz	-32.72 dBm	-19.72 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-22.50 dBm	-9.50 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85035 GHz	20.61 dBm	-9.39 dB

Date: 28.JUL.2015 11:10:28

Highest Band Edge / 1 RB

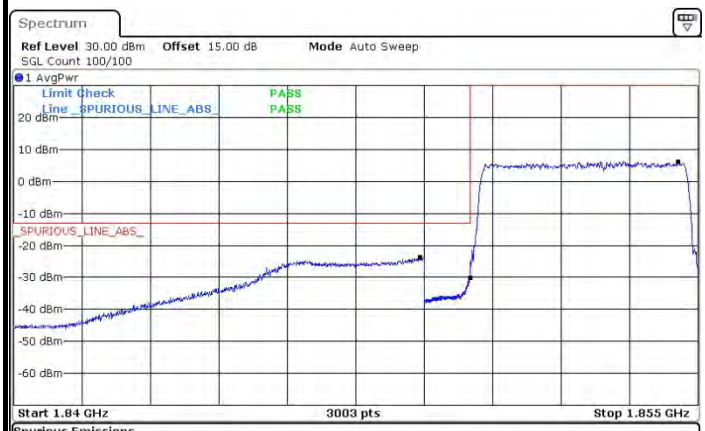


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.910 GHz	1.915 GHz	100.000 kHz	1.91467 GHz	19.93 dBm	-10.07 dB
1.915 GHz	1.916 GHz	50.000 kHz	1.91500 GHz	-23.37 dBm	-10.37 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91886 GHz	-33.17 dBm	-20.17 dB

Date: 7.MAY.2015 15:23:54

Lowest Band Edge / Full RB

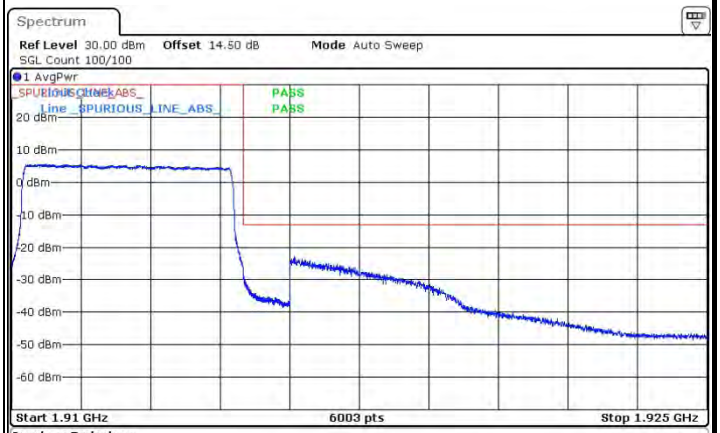


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84891 GHz	-23.73 dBm	-10.73 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-30.10 dBm	-17.10 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85456 GHz	6.19 dBm	-23.81 dB

Date: 28.JUL.2015 11:10:02

Highest Band Edge / Full RB



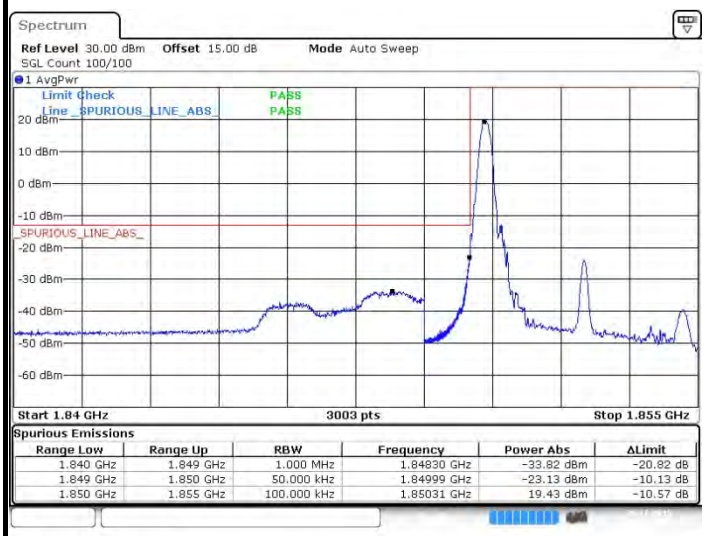
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.910 GHz	1.915 GHz	100.000 kHz	1.91074 GHz	5.48 dBm	-24.52 dB
1.915 GHz	1.916 GHz	50.000 kHz	1.91500 GHz	-29.07 dBm	-16.07 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91610 GHz	-22.78 dBm	-9.78 dB

Date: 7.MAY.2015 15:26:12

LTE Band 25 / 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	1.84830 GHz	-33.82 dBm	-20.82 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.84999 GHz	-23.13 dBm	-10.13 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85031 GHz	19.43 dBm	-10.57 dB

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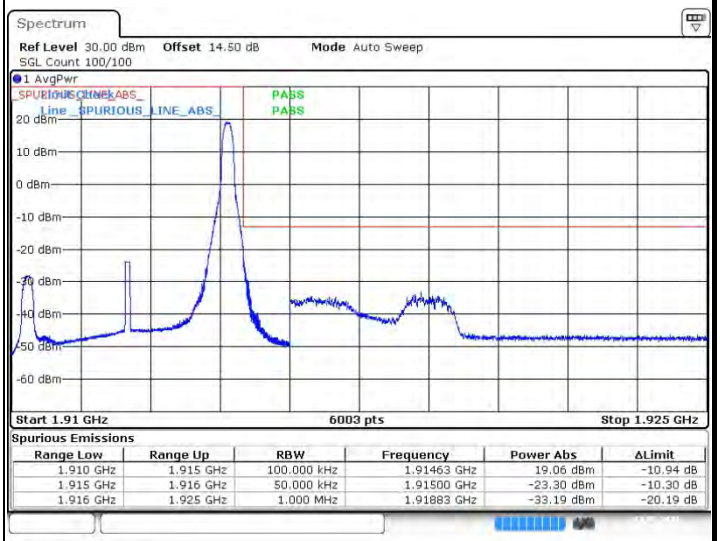
Highest Band Edge / 1 RB

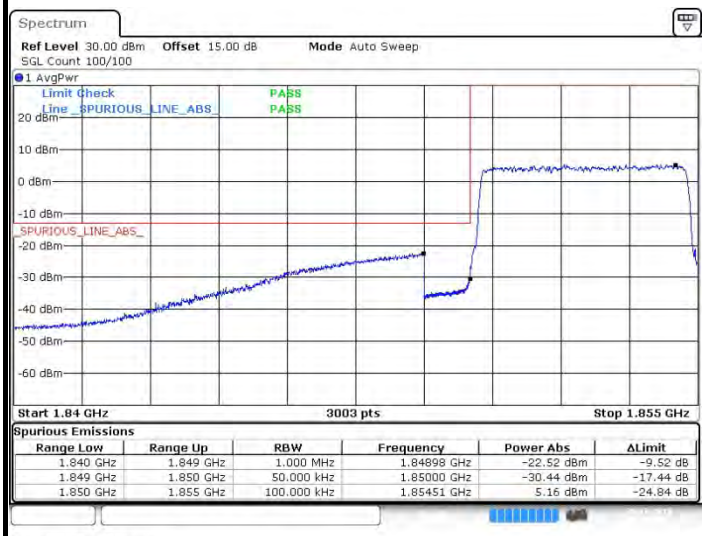


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.910 GHz	1.915 GHz	100.000 kHz	1.91463 GHz	19.06 dBm	-10.94 dB
1.915 GHz	1.916 GHz	50.000 kHz	1.91500 GHz	-23.30 dBm	-10.30 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91883 GHz	-33.19 dBm	-20.19 dB

Date: 7.MAY.2015 15:25:03

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	1.84898 GHz	-22.52 dBm	-9.52 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-30.44 dBm	-17.44 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85451 GHz	5.16 dBm	-24.84 dB

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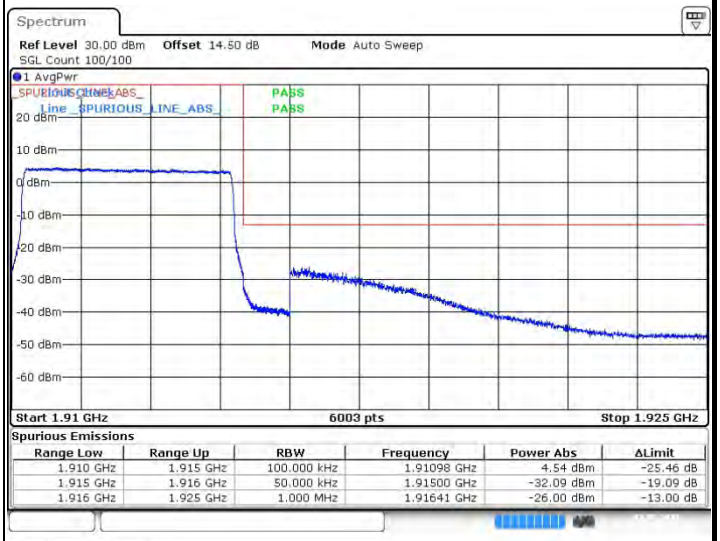
Highest Band Edge / Full RB



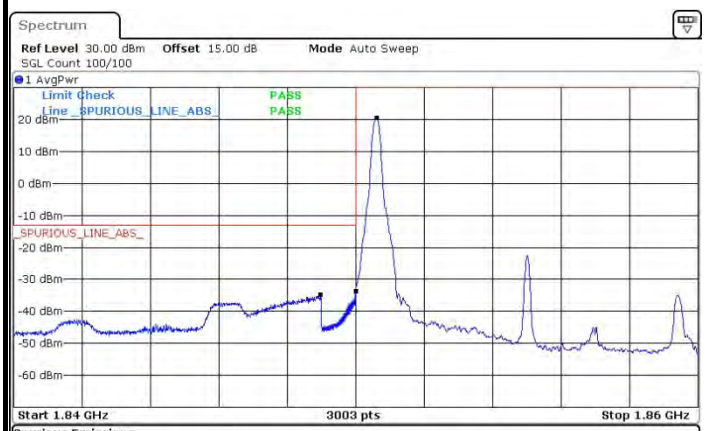
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.910 GHz	1.915 GHz	100.000 kHz	1.91098 GHz	4.54 dBm	-25.46 dB
1.915 GHz	1.916 GHz	50.000 kHz	1.91500 GHz	-32.09 dBm	-19.09 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91641 GHz	-26.00 dBm	-13.00 dB

Date: 7.MAY.2015 15:27:21

LTE Band 25 / 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	1.84895 GHz	-34.65 dBm	-21.65 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.85000 GHz	-33.58 dBm	-20.58 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85061 GHz	20.45 dBm	-9.55 dB

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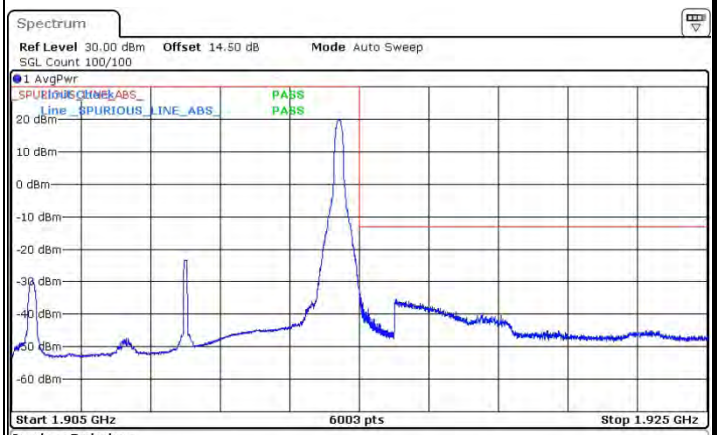
Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.915 GHz	100.000 kHz	1.91439 GHz	19.95 dBm	-10.05 dB
1.915 GHz	1.916 GHz	100.000 kHz	1.91500 GHz	-33.02 dBm	-20.02 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91606 GHz	-35.40 dBm	-22.40 dB

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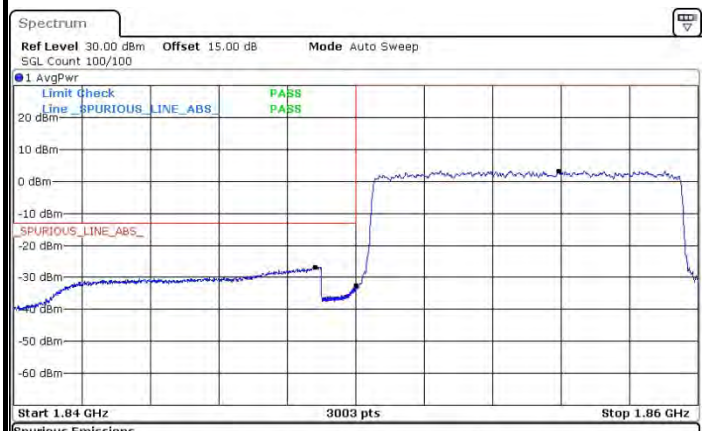
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84882 GHz	-26.78 dBm	-13.78 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84999 GHz	-32.56 dBm	-19.56 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85592 GHz	3.20 dBm	-26.80 dB

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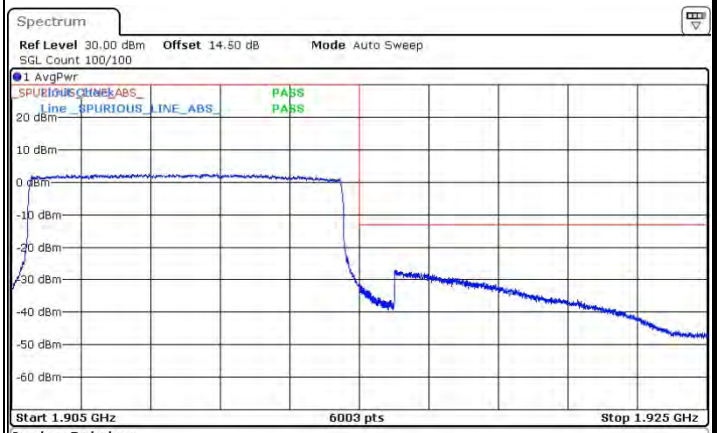
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.915 GHz	100.000 kHz	1.90896 GHz	2.53 dBm	-27.47 dB
1.915 GHz	1.916 GHz	100.000 kHz	1.91502 GHz	-31.40 dBm	-18.40 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91604 GHz	-27.12 dBm	-14.12 dB

Date: 7.MAY.2015 15:40:17